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C. O. BARTLETT, President and Treasurer.
I. M. SNOW, Secretary.
K. F. SNOW, Vice-Pres. and Gen. Manager

Chain and Sprocket Wheel

Catalogue No. 4.

..1902..

THE C. O. BARTLETT & SNOW COMPANY,

Manufacturers of

Oatmeal Mills, Flour Mills, Grain Elevators, Conveying and Elevating Machinery, Fertilizing Machinery, Cement Machinery, Paint Mills, Paint Mixers, Steam Dryers, Direct Heat Dryers, Carbon Mills, Feed Mills, Shellers, Crushers, Pearled Barley and Rolled Wheat Machinery.

Cable Address "Bartlett." Cleveland, Ohio, U. S. A.

IN ISSUING this catalogue, we desire to thank our many customers for their past patronage, and solicit a continuance of the same.

We have for many years made a specialty of conveying and elevating machinery and our past experience has been the means of producing a great many special chains, and sprocket wheels which are herein described.

THE C. O. BARTLETT & SNOW CO.

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Our Detachable Chain Belting

Is interchangeable with all standard links and will run on standard sprocket wheels of corresponding numbers.

On the following pages we illustrate full size unless noted.

Detachable Chain Belt Is Comparatively a New Thing.

Only a few years ago, scarcely any one knew anything about it. Now nearly every farmer uses it on some of his utensils. Its use is becoming enormous.

For elevating and conveying purposes, its use is almost indispensable. It is used everwhere, in mines, mills and factories. Its motion is positive. It can be run at a slow, medium or fast speed. It is made for exceedingly light work, or extraordinary heavy work. It has been the means of bringing out more inventions than almost any other article.

It is adapted for many places where nothing else will do; and, futhermore it is very reasonable in price.

In ordering Chain Belting be careful and give the number of chain required When in doubt, always send a sample link.

Explanation.

On the following pages we illustrate our regular and special detachable chain belting, also the different attachments used in connection with same and our special malleable chain adapted to our Common Sense Conveyor and elevators and for many other purposes; also illustrate sprocket wheel and conveyors and elevators.

Price of Standard detachable chain.....page 8
" Odd sizes..... " 9
" Regular attachments..... " 8
" Special attachments..... " 10–11–12

Do not fail to read the notes at the bottom of pages 8 and 9 about attachments.

The price of each chain and the attachments used for each chain is given with each illustration.

On pages 10, 11 and 12 are given the list of attachments for the different sizes of chain and prices per foot.

Price List of Regular Standard Detachable Sprocket Chain.

No.	PRICE, PER FOOT. All Plain Links.	All Attachment Links.	Telegraph Code.	Links in 1 Foot.	Working Strain. Pounds.	Approximate in Leather Belting. Inches.
25	$0 10	$0 23	Gun	13.3	75	1 Single
32	10	21	Dog	10.4	150	1½ "
33	10	21	Mow	8.6	200	2 "
34	10	21	Bun	8.6	225	2½ "
35	10	21	Log	7.4	250	2½ "
42	11	22	Mat	8.8	300	3 "
45	11	22	Cow	7.4	350	3½ "
51	14	25	Sun	10.4	375	3½ "
52	15	25	Bog	8.0	500	4 "
55	15	23	Rat	7.4	450	4 "
57	15	30	Low	5.2	600	6 "
62	20	34	Dun	7.3	650	6½ "
66	20	34	Fog	6.0	700	6½ "
67	20	34	Sat	5.2	700	7 "
75	23	37	Bow	4.6	750	7½ "
77	23	37	Fun	5.2	800	8 "
78	26	47	Now	4.6	1000	10 "
83	31	56	Run	3.0	1200	12 "
85	34	56	Hog	3.0	1300	9 Double
88	31	56	Fat	4.6	1200	8 "
93	37	56	Row	3.0	1600	10 "
95	40	75	Nun	3.0	1600	10 "
103	50	75	Tan	4.0	1800	12 "
105	44	62	Vow	2 0	1500	10 "
107	50	88	Hat	2.0	1600	10 "
108	63	1 00	Tow	2.55	2000	13 "
114	63	80	May	3.66	2000	13 "
122	75	1 15	Bey	2.0	2200	15 "
124	75	1 25	Ran	3 0	2250	17 "
146	75	1 15	Won	2 0	2800	19 "
160	1 00	1 50	Jet	1.2	4000	

The above prices of attachments are for A1, A2, A3, C1, E1, F2, G1, G6, H1, H2, K1, K2, M1, M3, R1, R3, S1 and S2, as they are now made for the respective chains. Other attachments will be furnished at special prices.

Standard Detachable Sprocket Chain.

PRICE LIST OF ODD SIZES.

No.	Price, Per Foot. All Plain Links.	Price, Per Foot. All Attachments.	Telegraph Code.	Links in 1 foot.	Working Strain. Lbs.
024	$0 13	$0 32	Eager	13 3	50
025	10	25	Elect	12.0	75
32½	.....	.....	Excess	16.0	250
36½	12	.....	Embark	8.0	250
37	12	25	Edify	6.0	225
38	12	23	Elapse	6.0	250
39	25	44	Equip	7.7	300
042	15	25	Endow	8.8	300
42½	.....	.....	Echo	12.0	375
43	23	38	Easel	7 9	400
44	12	23	Escape	8.0	325
45½	10	20	Earnest	7.4	250
47	13	25	Enchant	7.4	400
48	12	23	Exult	6.0	375
50	14	25	Errant	8.7	350
052	18	.....	Essay	8.0	525
52½	20	.....	Early	7 9	550
54	15	.....	Economy	8.2	475
055	18	.....	Editor	7 4	525
056	19	.....	Effects	8 0	600
057	18	30	Elate	7.4	450
58	18	.....	Escort	7 5	550
64	2 0	.....	Either	6.0	550
J64	25	.....	Ethics	7 9	650
65	20	34	Every	5 6	550
71	25	.....	Encamp	7.2	925
71½	23	.....	Equity	6.0	900
072	23	.....	Encore	7.2	900
72	23	.....	Eclipse	5.9	850
72½	25	.....	Earthen	7.2	925
76	23	.....	Excel	5 2	625
76½	23	.....	Ejection	5.8	700
88½	42	57	Educe	4 6	1600
89	40	.....	Elegant	4.6	1300
94	50	82	Explain	3 0	1800
101	40	69	Elicit	4.5	1600
106	57	82	Embalm	2.0	2000
115	82	.....	Erase	3.7	2050
117	82	.....	Encourage	3 7	2150
118	82	.....	Embers	3 7	2200
130	1 13	.....	Edict	3 4	2500

LIST OF ATTACHMENTS MADE FOR ODD SIZES CHAIN.

No. 37.	No. 38.	No. 44.	No. 45½.	No. 47.	No. 48.	No. 50.	No. 65.	No. 101.	
L3	A3	A1	C1	L3	A3	A1	B1	G6	....
S1	C1	K1	C2	....	A4	K3½	B2	....	....
....	D6	K5	....	....	B1	....	U1	....	....
....	E2	Cplr.	....	....	B2	....	....	....	....
....	....	....	....	....	D1	....	....	....	....
....	....	....	....	....	K1	....	....	....	....
....	....	....	....	....	I2	....	....	....	....

The above prices of attachments are for A1, A2, A3, C1, E1, F2, G1, G6, H1, H2, K1, K2, M1, M3, R1, R3, S1 and S2, and as they are now made for the respective chains. Other attachments will be furnished at special prices. Sprocket wheels are made to special order only.

List of Attachments for the Different Sizes of Chain,

With Prices per foot and Couplers per pair.

No. 25. Regular Attachment. 23 c.

A 1	
A 3	
C 1	
E 1	
G 1	
H 2	
K 1	
M 1	
S 1	

Special.

D 3	$o	38
D 15		38
G 13		38
K 3		38
K 5		38
K 6		38
L 2		23
Cplr.		05

No. 32. Regular Attachment. 21 c.

A 1	
A 2	
A 3	
C 1	
E 1	
K 1	
M 1	

Special.

D 3	$o	38
K 3		38
K 5		38
K 6		38
K 36		38
Cplr.		05

No. 33. Regular Attachment. 21 c.

A 1	
C 1	
E 1	
K 1	
M 1	
S 1	

Special.

A 6		
D 3	$o	38
K 3		30
K 5		25
K 6		30
K 12		
Cplr.		06

No. 34. Regular Attachment. 21 c.

A 1	
C 1	
E 1	
K 1	

Special.

C 2		
K 37½	$o	38
K 38½		38
L 1		30
Cplr.		07

No. 35. Regular Attachment. 21 c.

A 1	
A 2	
C 1	
E 1	
K 1	
S 1	

Special.

A 29		
K 3¼	$o	35
K 5		25
Cplr.		07

No. 36½. Special Attachment.

K 5	$o	35

No. 37. Special Attachment.

L 3		25

No. 39. Special Attachment.

L 3		44

No. 042. Regular Attachment.

A 1		25

No. 42. Regular Attachment. 22 c.

A 1	
A 3	
C 1	
K 1	
S 1	

Special.

A 6		
A 14		
A 29		
K 3	$o	30
K 5		28
K 6		30
Cplr.		07

No. 43. Special Attachment.

K 3	$o	38

No. 44. Regular Attachment. 23 c.

A 3	
K 1	

No. 45 Chain. Regular Attachmen 22 c.

A 1	
A 3	
C 1	
E 1	
G 1	
H 2	
K 1	
M 1	
S 1	
G 1	
F 2	

Special.

A 10		
A 12	$o	38
A 13		30
A 14		38
A 29		38
C 9		
C 15		38
C 20		
K 40		38
D 3	$o	30
D 5		38
K 3		30
K 5		25
L 2		22
L 3		22
P 4		38
S 5		
Cplr.		09

No. 47. Special Attachment.

L 3	$o	25

No. 48. Regular Attachment. 23 c.

A 3	

Special.

B 1	$o	38
B 2		38

List of Attachments for the Different Sizes of Chain,

With Prices per foot and Couplers per pair.

No. 50. Regular Attachment. 25 c.	No. 51. Regular Attachment. 25 c.	No. 52. Regular Attachment. 25 c.	No. 55. Regular Attachment. 23 c.	No. 057. Special Attachment.	
A 1	A 1 C 1	A 1 A 3 C 1 E 1 F 2 G 1 K 1	A 1 A 2 A 3 C 1 E 1 F 2 K 1 S 1	L 2 $0 30	
	Special. K 1 25 K 5 30 S 1 25 Cplr. 10	Special. D 5 $0 30 K 5 30 E 3 30 Cplr. 10	Special. A 12½ A 41 $0 30 C 5 C 17 38 C 18 38 D 3 30 G 27 30 K 5 30 L 2 23 S 5 Cplr. 10		

No. 57. Regular Attachment. 30 c.	No. 62. Regular Attachment. 34 c.	No. 65. Special Attachment.	No. 66. Regular Attachment.	No. 67. Regular Attachment. 34 c.	No. 73. Special Attachment.
A 1 A 3 E 1 F 2 H 1 H 2 K 1 S 2	A 1 A 3 C 1 K 1	B 2 $0 50	C 1 $0 34 Cplr. 15	A 1 E 1 F 2 H 1 K 1 S 2	K 8 $0 38 Cplr. 25
Special. D 5 $0 38 F 1 39 Cplr 14	Special, A ½ $0 38 D 5 38 K ½ 38 K 5 38 A 12 34 Cplr. 15			Special. D 5 $0 38 F 1 44 F F 42 Cplr. 17	

List of Attachments for the Different Sizes of Chain,

With Prices per foot and Couplers per pair.

No. 75. Regular Attachment. 37 c.

E 1
F 2
H 1
H 2
K 1

Special.

H 3
H 4
R 1 $0 23
R 2 37
R 8 38
Cplr. 17

No. 77. Regular Attachment. 37 c.

A 1
E 1
F 2
G 1
G 6
H 1
K 1
S 2

Special.

F 1 $0 48
K 8 40
R 1 23
R 3 25
H 9 44
DK 44
Cplr. 17

No. 78. Regular Attachment. 47 c.

A 3
E 1
F 2
G 1
G 6
H 2
K 1
M 3
S 2

Special.

A 11 $0 47
F 4 58
FF 62
H 6 62
R 1 31
G 19 55
R 8 48
K 6 92
Cplr. 23

No. 83. Regular Attachment 56 c.

G 1
E 1
M 3

Special.

A 11 $0 56
D 5 75
E 2 56
G 24 56
FF 62
Cplr. 31

No. 85. Regular Attachment 56 c.

F 2
K 2
S 2

Special.

F 8
K 3
K 7
S 5
FF $0 75
F 5 75
Cplr. 42

No. 88. Regular Attachment 56 c.

A 3
F 2
G 6
H 1
K 1
S 2

Special.

F 8 $0 56
G 10
H 9
R 1 38
R 2
H 6 75
Cplr. 25

No. 88½. Regular Attachm't 57 c.

F 2
K 1
S 2

Special.

G 10
Cplr. 30

No. 93. Regular Attachment. 56 c.

A 2
Cplr. $0 44

No. 95. Regular Attachment. 75 c.

F 2
K 2
Cplr. $0 50

No. 103. Regular Attachment. 75 c.

A 1
E 1
F 2
G 6
H 1
H 2
K 1
M 3

Special.

A 4 $0 75
A 11 75
DD 1 25
F 8 94
H 14
R 1 62
R 5
H 3 94
D 5 75
Cplr. 55

No. 105. Regular Attachment 62 c.

K 2

Special.

F 1 $0 62

No. 106. Regular Attachment

K 2 $0 82

No. 108. Regular Attachment

F 2 $1 00
K 2 1 00
Cplr. 75

No. 114. Regular Attachment 80 c.

F 2
K 1

Special.

A 11
F 8 $1 12
L 2
Cplr. 81

No. 122. Regular Attachment $1 15

F 2
K 2
Cplr. $1 50

No. 124. Regular Attachment $1 25

F 2
G 1
G 6
K 1

Special.

A 4
DD
F 8 $1 50
Cplr. 1 12

No. 146. Regular Attachm't $1 15

K 2
F 2

Special.

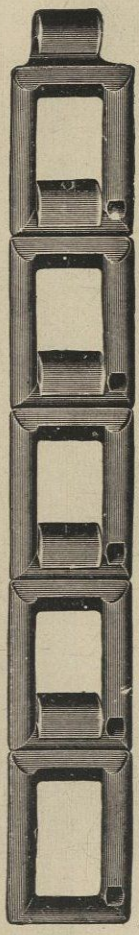
F 5 $1 35
K 4 1 35

No. 530. Regular Attachm't

H 1 $1 50
Cplr.

13c per ft.
Special.

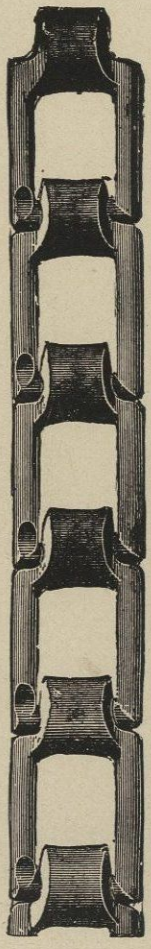
No. 024



Full Size.
Working Strain 50 pounds.

10c per ft.

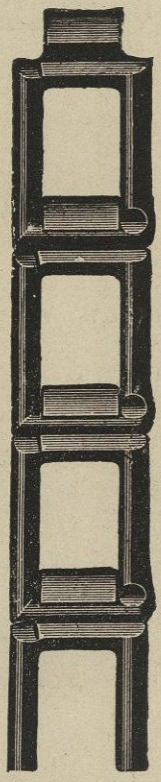
No. 25



Full Size.
Working Strain 75 pounds.

10c per ft.
Special.

No. 025



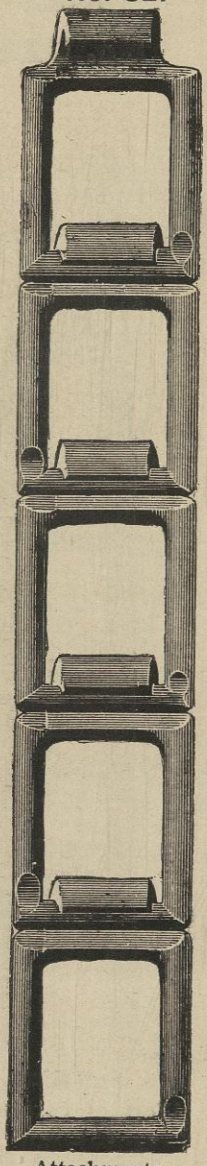
Full Size.
Working Strain 75 pounds.

Attachments.

A1	G1	K6
A3	G13	L2
C1	H2	M1
D3	K1	S1
D15	K3	Coupler
E1	K5	

10c per ft.

No. 32.



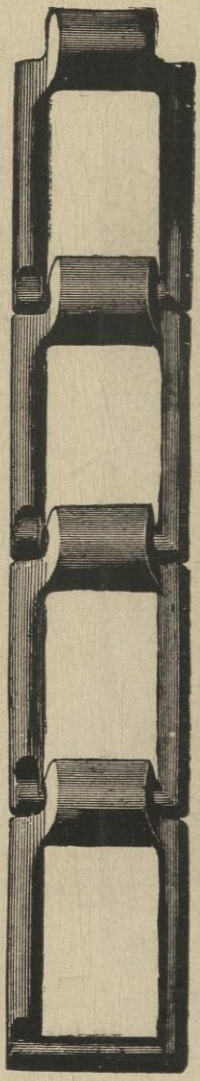
Attachments.

A	1	K	1
A	2	K	3
A	3	K	5
C	1	K	6
K	6	D	33
E	1	M	1

Coupler

10c per ft.

No. 33.

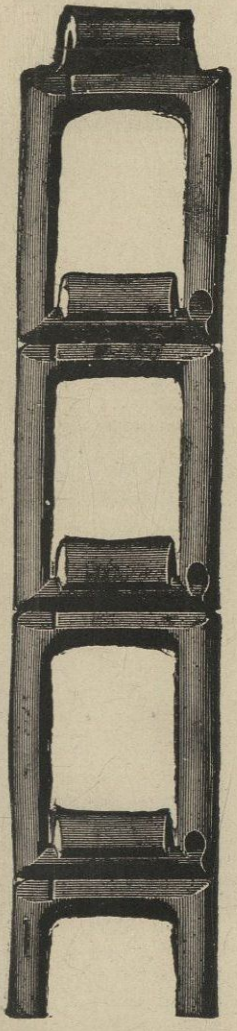


Attachments.

A	1	K	5
A	6	K	6
C	1	K	11
D	3	K	12
E	1	M	1
K	1	S	1
K	3	**Coupler**	

10c per ft.

No. 34



Full Size.

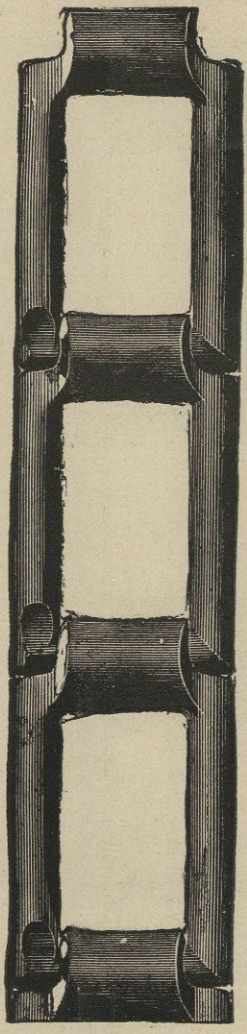
Working Strain 225 pounds.

Attachments.

A1	K37½
C1	K38½
C2	L1
E1	Coupler
K1	

10c per ft.

No. 35



Full Size.

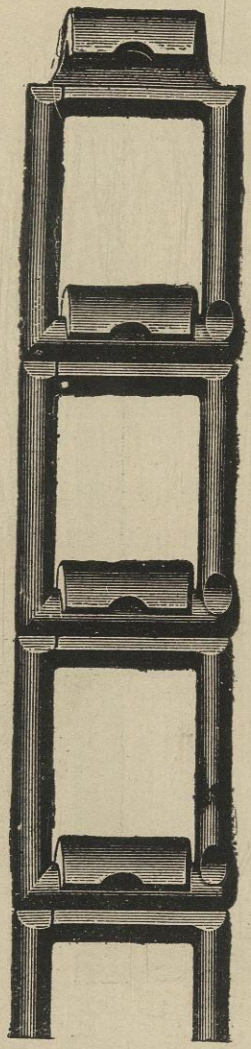
Working Strain 250 pounds.

Attachments.

A1	K1
A2	K3¼
A29	K5
C1	S1
E1	Coupler

12c per ft.
Special.

No. 36½



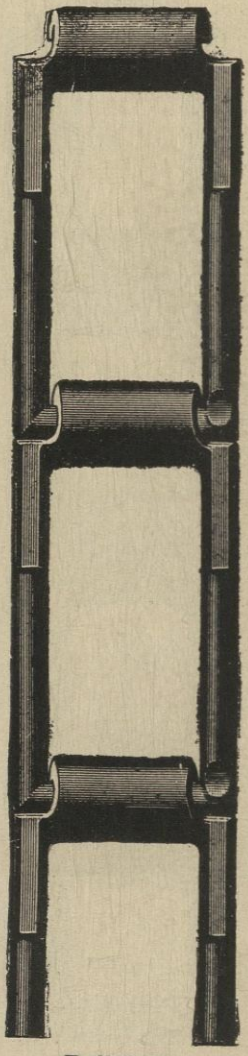
Full Size.
Working Strain 250 pounds.

Attachment.

K5

12c per ft.
Special.

No. 37



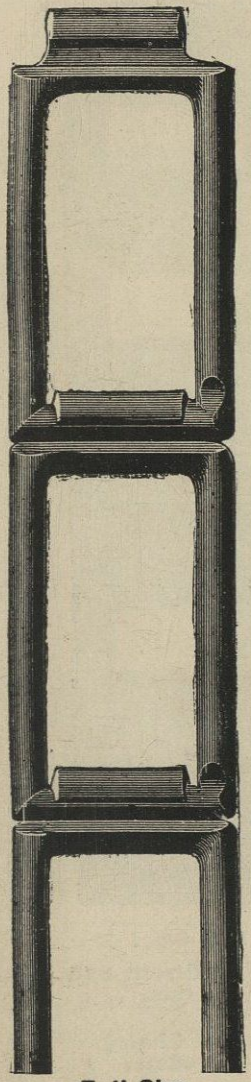
Full Size.
Working Strain 225 pounds.

Attachment.

L3

12c per ft.
Special.

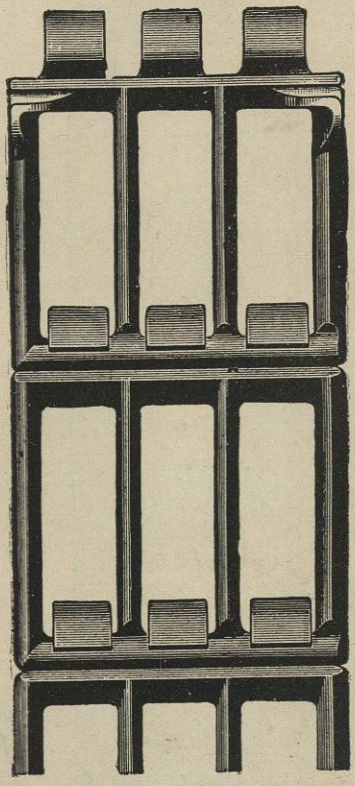
No. 38



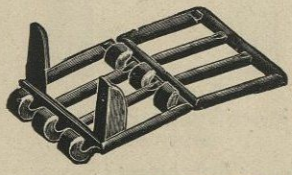
Full Size.
Working Strain 250 pounds.

25c per ft.
Special.

No. 39



Full Size.
Working Strain 300 pounds.
4 bars, 3 hooks.

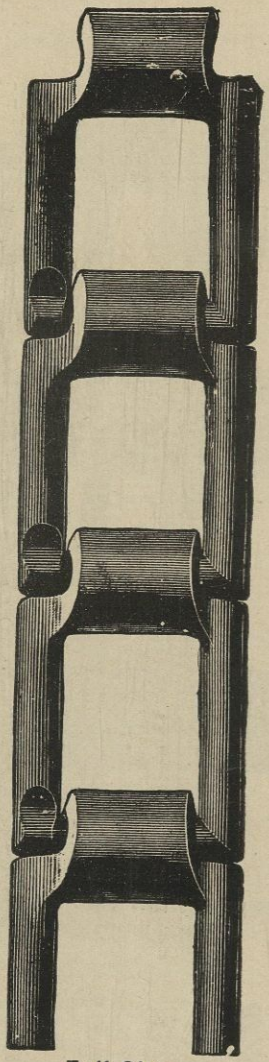


No. 39 shown in reduced size with attachment L3 inserted.

Attachment.
L3

11c per ft.

No. 42



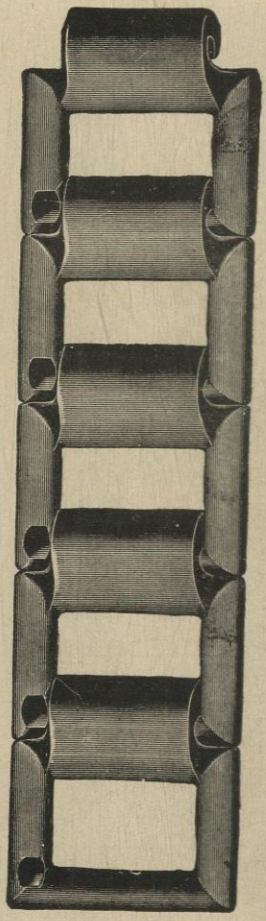
Full Size.
Working Strain 300 pounds.

Attachments.

A1	A29	K5
A1 Coupler	C1	K6
A3	DD	S1
A6	K1	Coupler
A14	K3	

20c per ft.
Special.

No. 42½

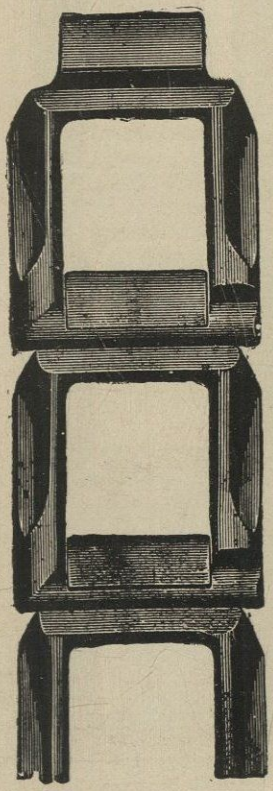


Full Size.
Working Strain 375 pounds.

Friction Chain, no Sprockets.

15c per ft.
Special.

No. 042

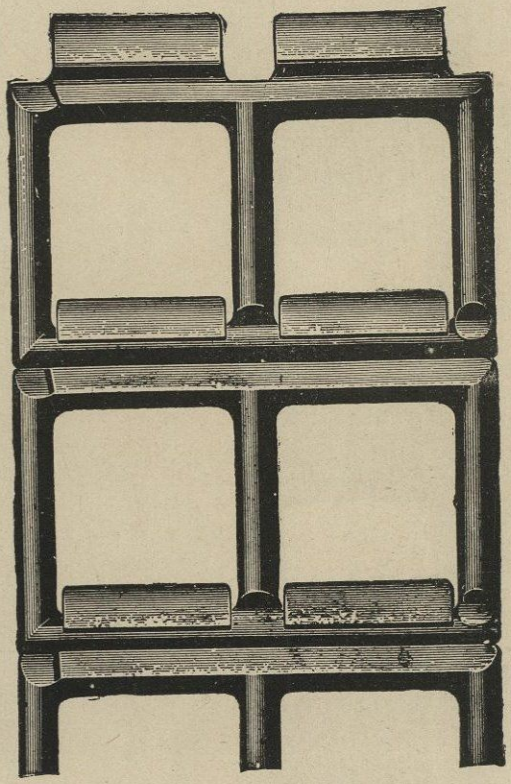


Full Size
Working Strain 300 pounds.

Attachment.
A1

23c per ft.
Special.

No. 43

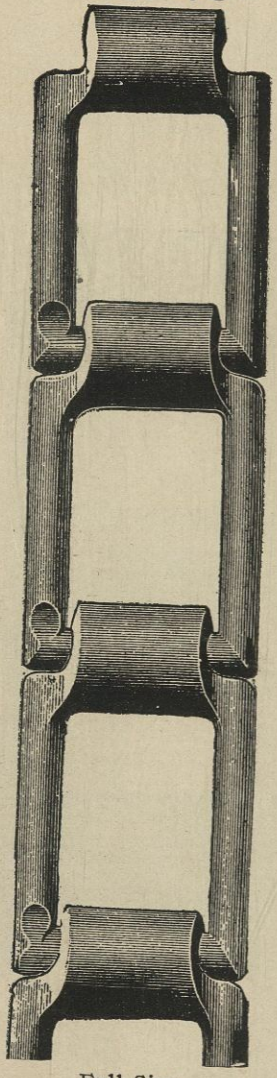


Full Size.
Working Strain 400 pounds.

Attachment.
K3

11c per ft.

No. 45



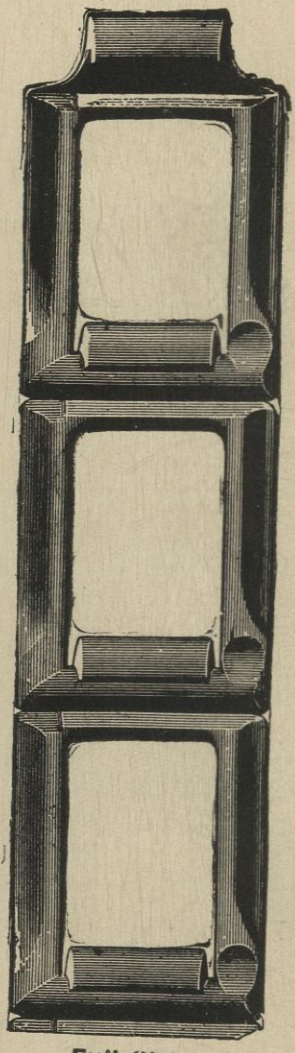
Full Size.
Working Strain 350 lbs.

Attachments.

A1	A14	C20	G1	L2
A3	A29	D3	H2	L3
A10	C1	D5	K1	M1
A12	C9	E1	K3	S1
A13	C15	F2	K5	S5
				Coupler

Special.
13c per ft.

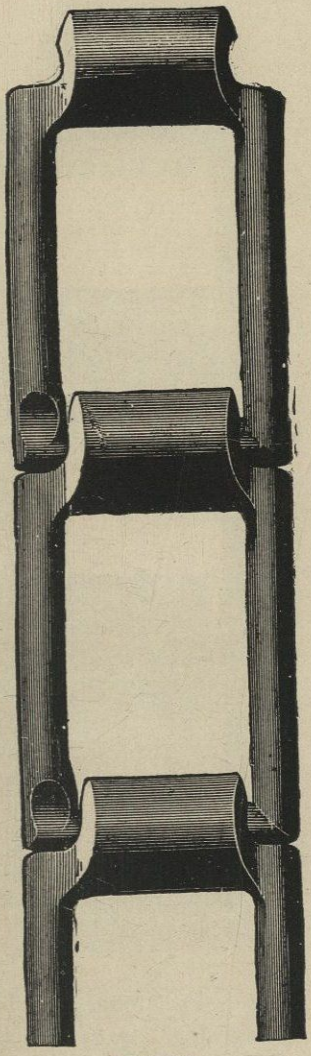
No. 47



Full Size.
Working Strain 400 pounds.
Attachment.
L3

12c per ft.
Special.

No. 48



Full Size.

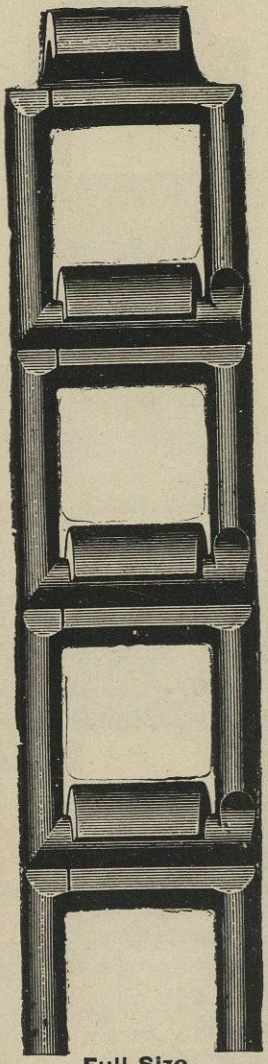
Working Strain 375 pounds.

Attachments.

A 3
B 1
B 2

14c per ft.
Special.

No. 50



Full Size.

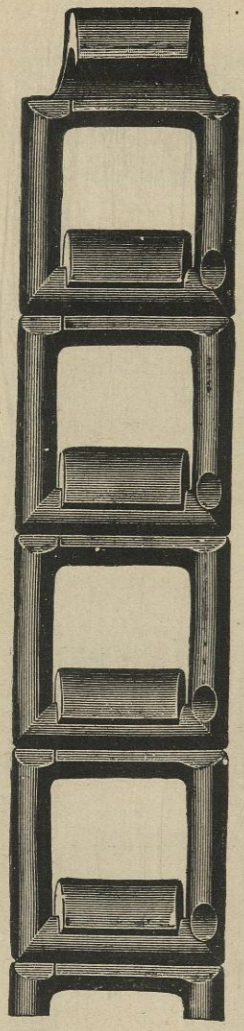
Working Strain 350 pounds.

Attachments.

A 1
K 3½

14c per ft.

No. 51



Full Size.

Working Strain 375 pounds.

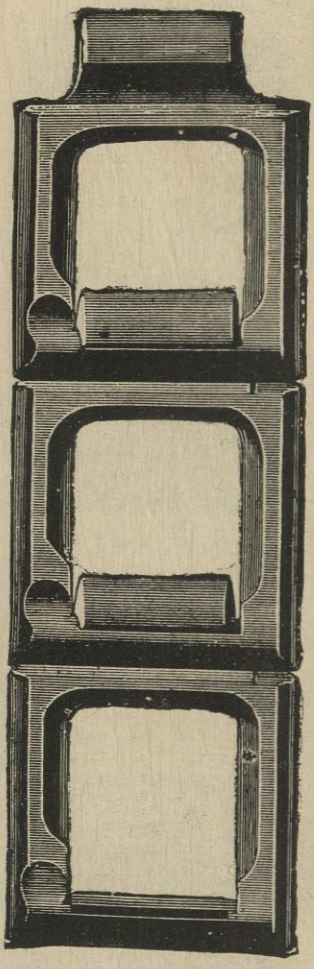
Attachments.

A 1	C 4
C 1	K 1
K 5	S 1

Coupler

15c per ft.

No. 52



Full Size.

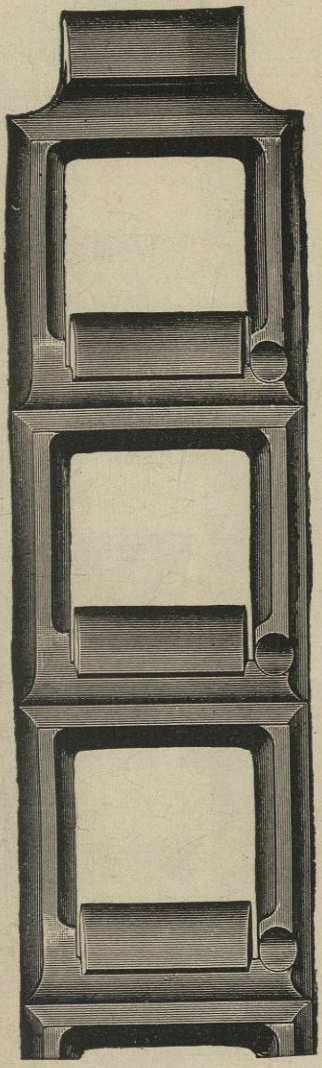
Working Strain 500 pounds.

Attachments.

A 1	F 2
A 3	G 1
C 1	K 1
D 5	K 5
E 1	
E 3	Coupler

18c per ft.
Special.

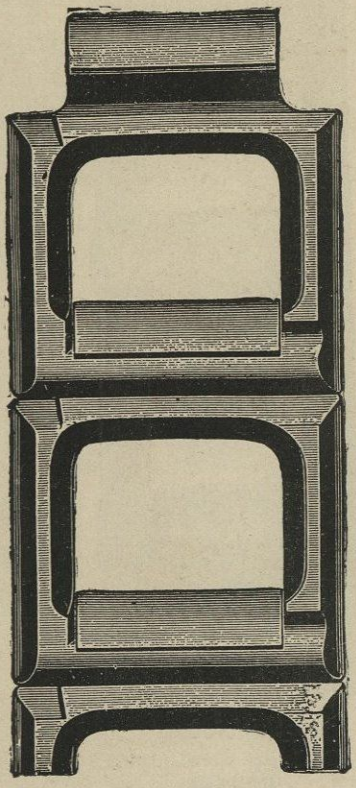
No. 052



Full Size.
Working Strain 525 pounds.

20c per ft.
Special.

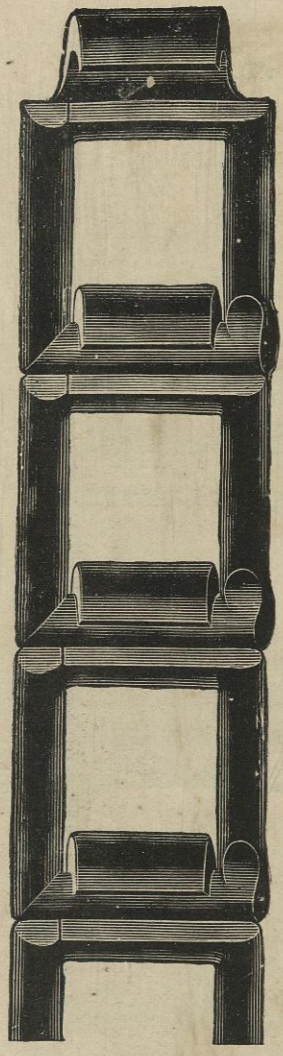
No. 52½



Full Size.
Working Strain 550 pounds.

15c per ft.
Special.

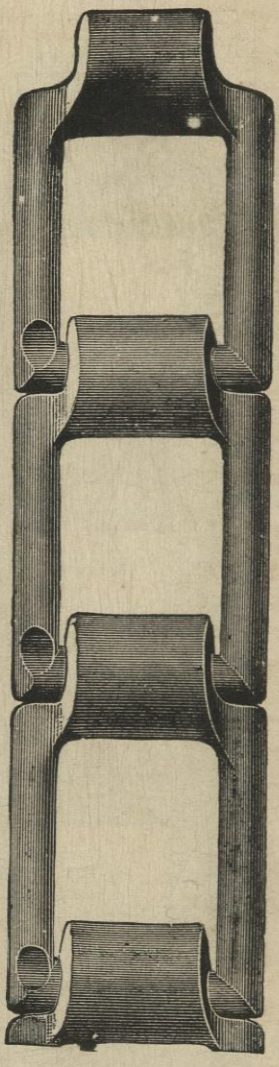
No. 54



Full Size.
Working Strain 475 pounds.

15c per ft.

No. 55



Full Size.
Working Strain 450 pounds.

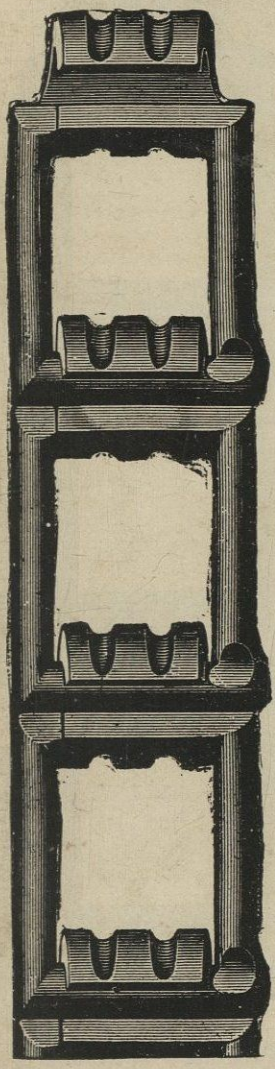
Attachments.

A	1	C	1	C	32	K	1
A	2	C	5	D	3	K	5
A	3	C	17	E	1	L	2
A	12½	C	18	F	2	S	1
A	41			G	27	S	5

Coupler

18c per ft.
Special.

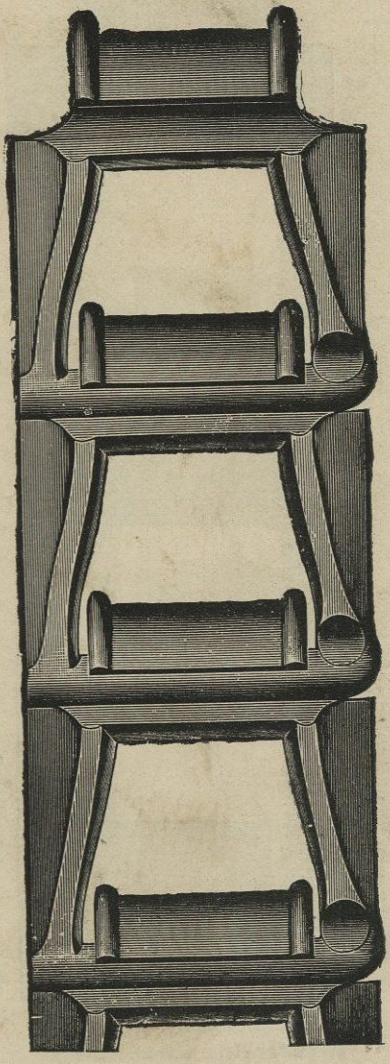
No. 055



Full Size.
Working Strain 525 pounds.

19c per ft.
Special.

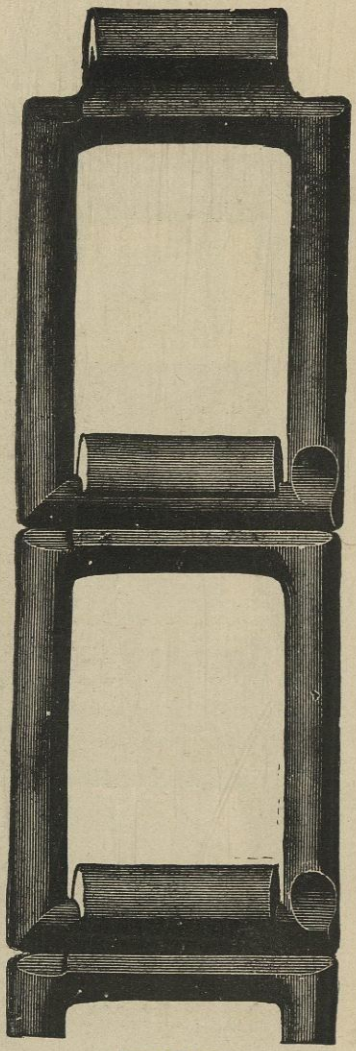
No. 056



Full Size.
Working Strain 600 pounds.

15c per ft.

No. 57



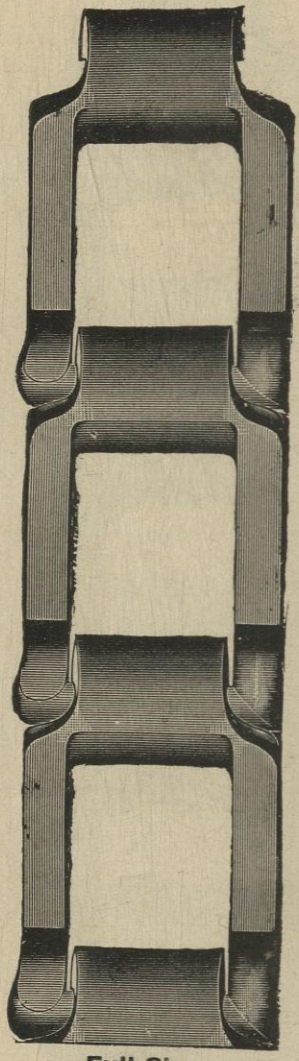
Full Size.
Working Strain 600 pounds.

Attachments.

F 2	A 3	K 1
A 1	F 1	S 2
D 5	H 1	Coupler
E 1	H 2	

18c per ft.
Special.

No. 057

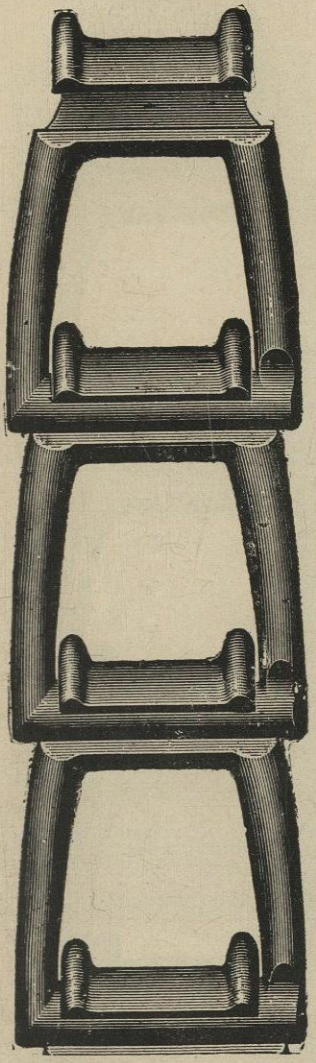


Full Size.
Working Strain 450 pounds.

Attachment.
L 3

18c per ft.
Special.

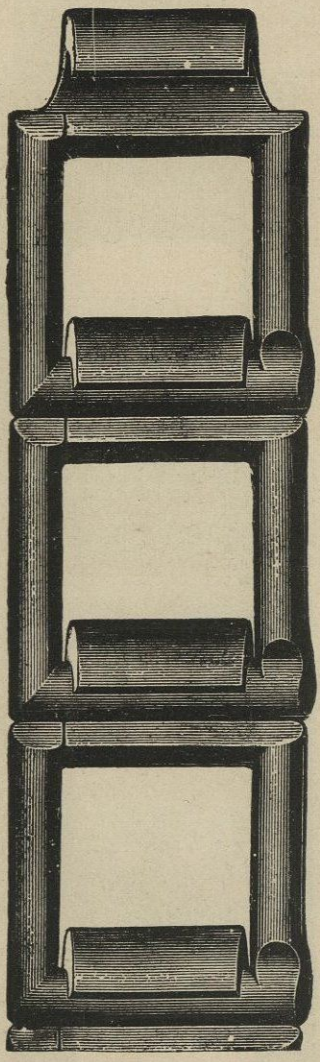
No. 58



Full Size.
Working Strain 550 pounds.

20c per ft.

No. 62



Full Size.
Working Strain 650 pounds.

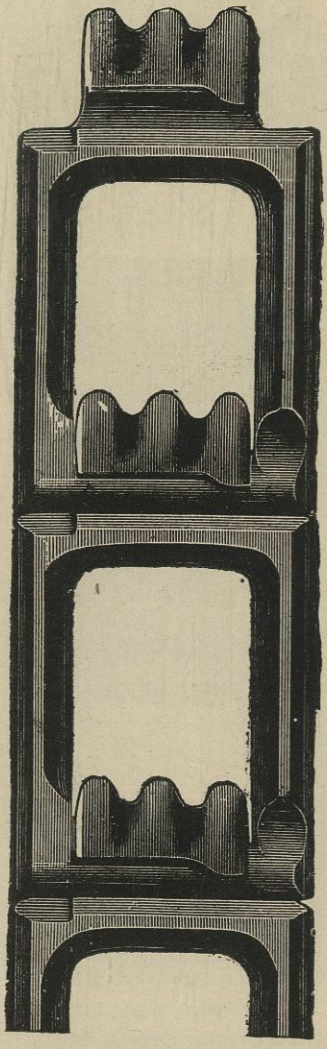
Attachments.

A ½	C 1	K 1
A 1	D 5	R 20
A 3	K ½	K 5

Coupler

20c per ft.
Special.

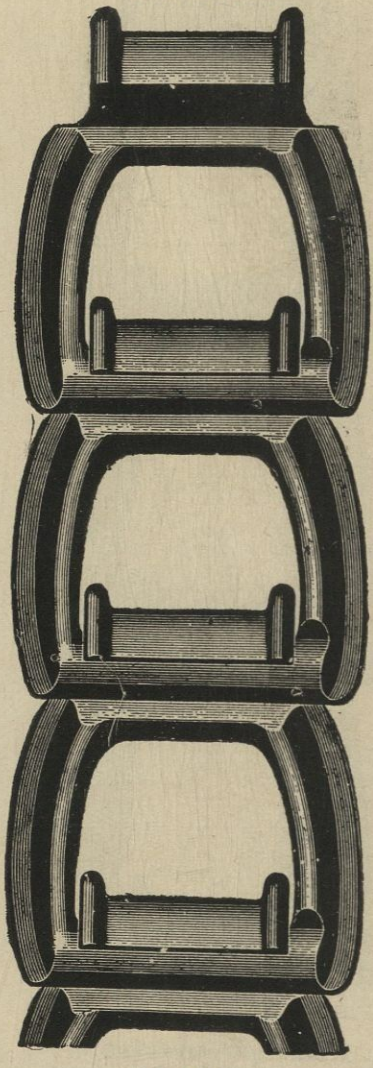
No. 64



Full Size.
Working Strain 550 pounds.

30c per ft.
Special.

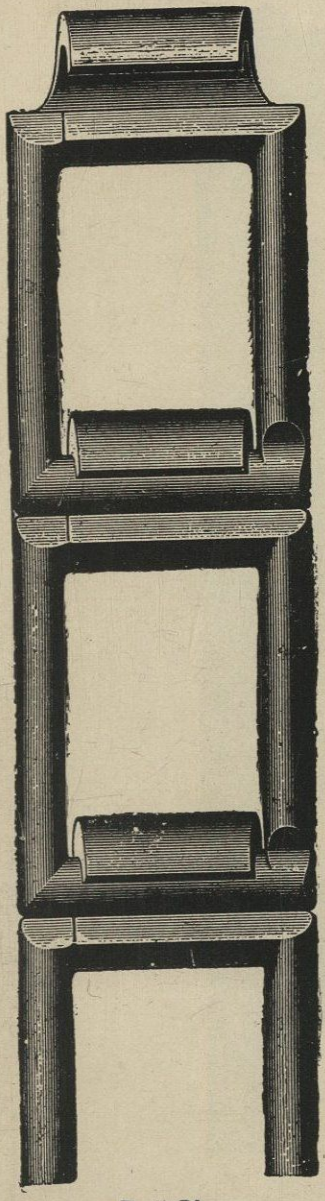
No. 063



Full Size.
Working Strain 650 pounds.

20c per ft.
Special.

No. 65



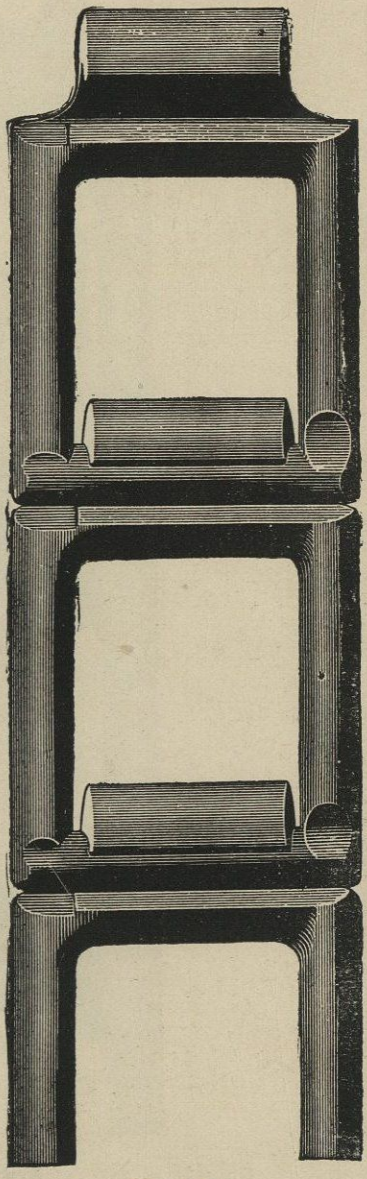
Full Size.

Working Strain 550 pounds.

Attachment.
B 2

20c per ft.

No. 66



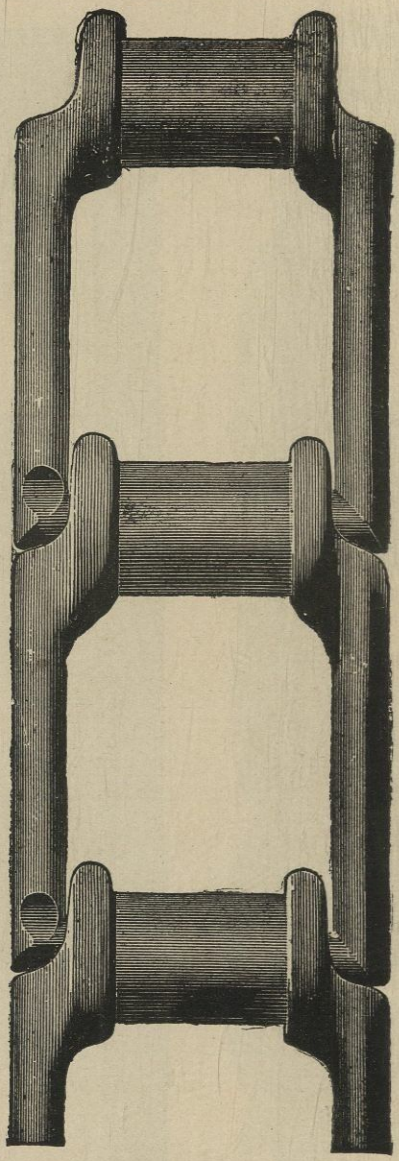
Full Size.

Working Strain 700 pounds.

Attachments.
C 1 Coupler

20c per ft.

No. 67.



Full Size.

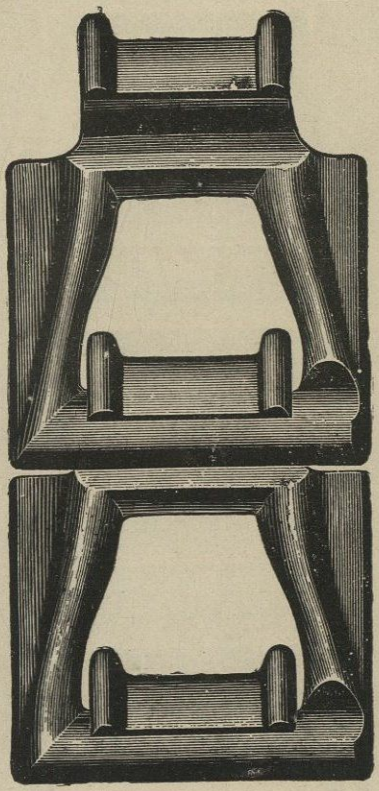
Working Strain 700 pounds.

Attachments.

A 1 E 1 F 2 K 1 Coupler
D 5 F 1 H 1 S 2

25c per ft.
Special.

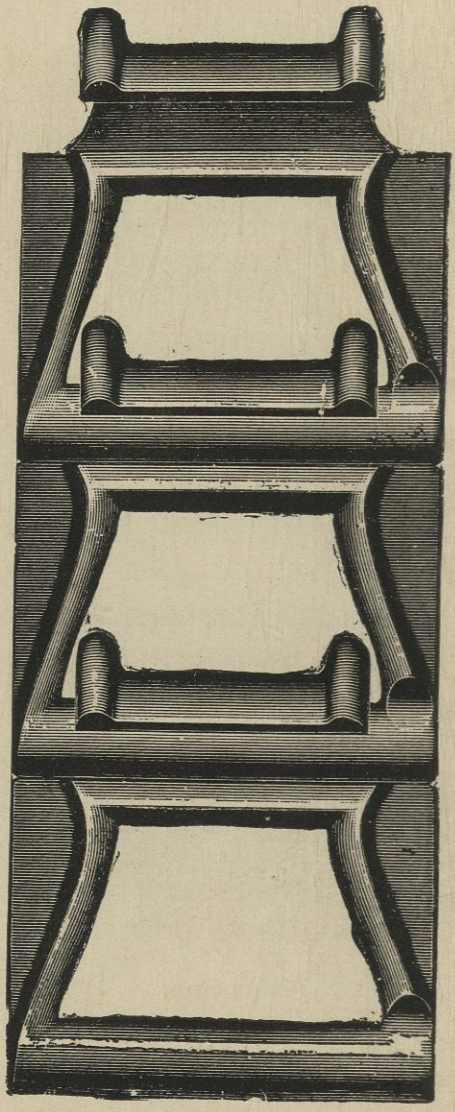
No. 71



Full Size.
Working Strain 925 pounds.

23c per ft.
Special.

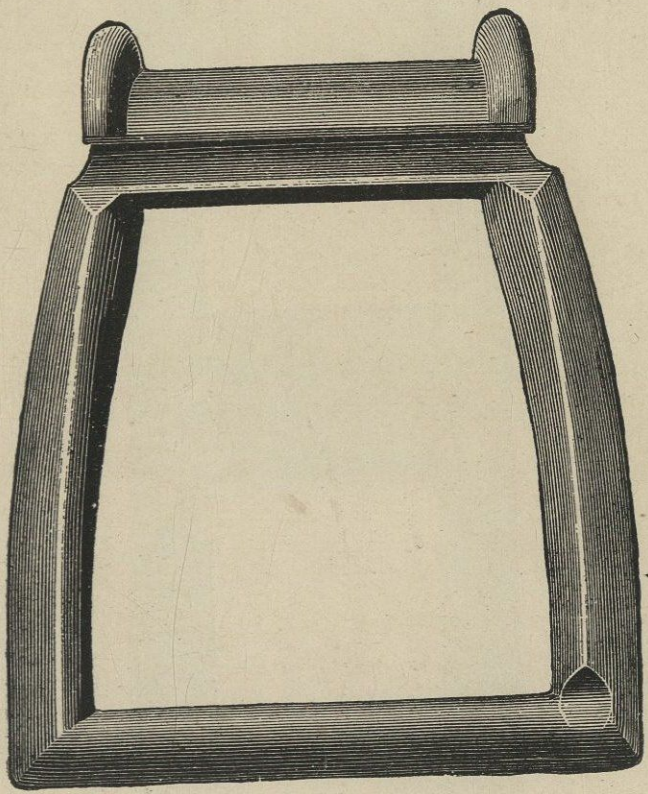
No. 072



Full Size.
Working Strain 900 pounds.

30c per ft.
Special.

No. 73

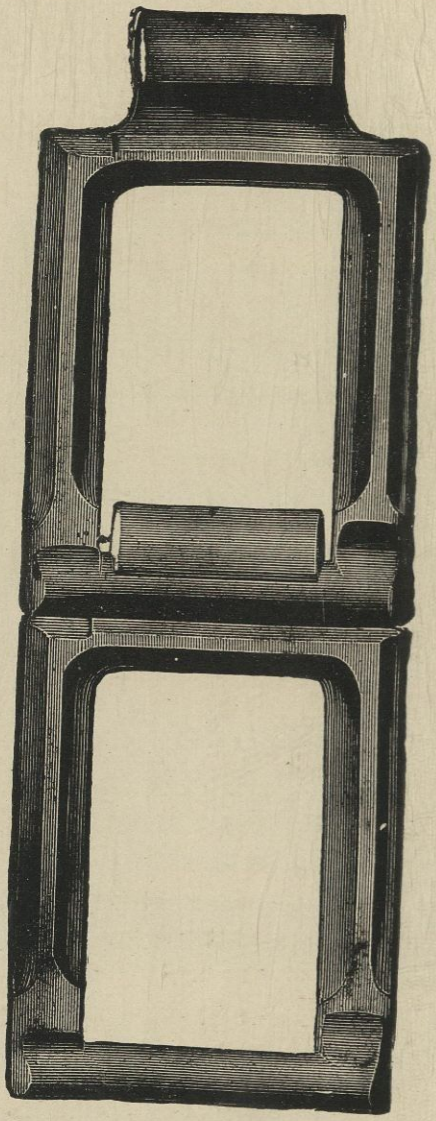


Full Size.
Working Strain 1,000 pounds.

Attachment.
K 8

23c per ft.

No. 75



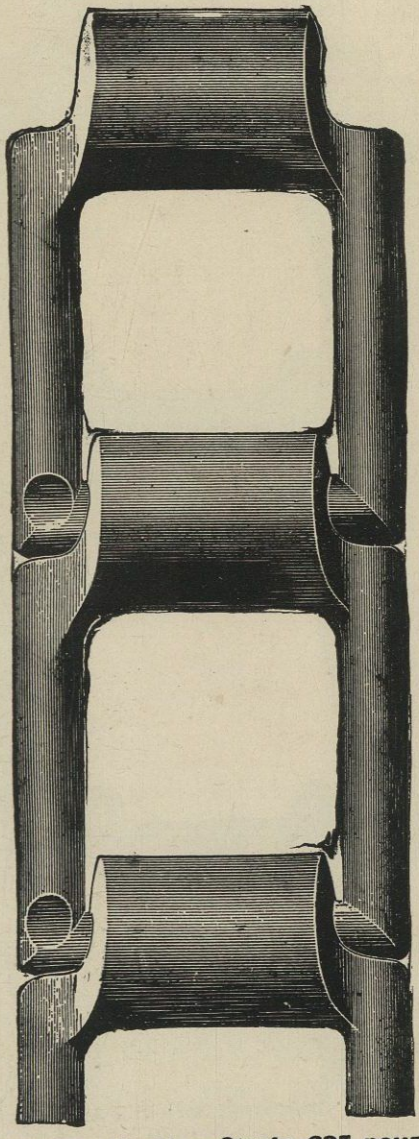
Full Size. Working Strain 750 pounds.

Attachments

E 1	H 3	K B 1	R 8
F 2	H 4	K B 2	R 20
H 1	H 4½	R 1	Coupler
H 2	K 1	R 2	

23c per ft.
Special.

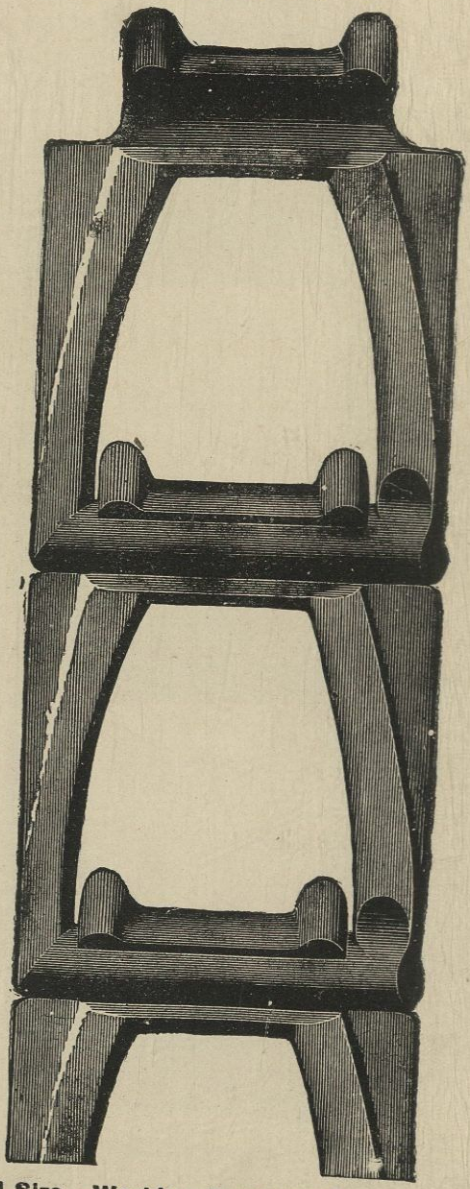
No. 76



Full Size. Working Strain 625 pounds.

23c per ft.

No. 77



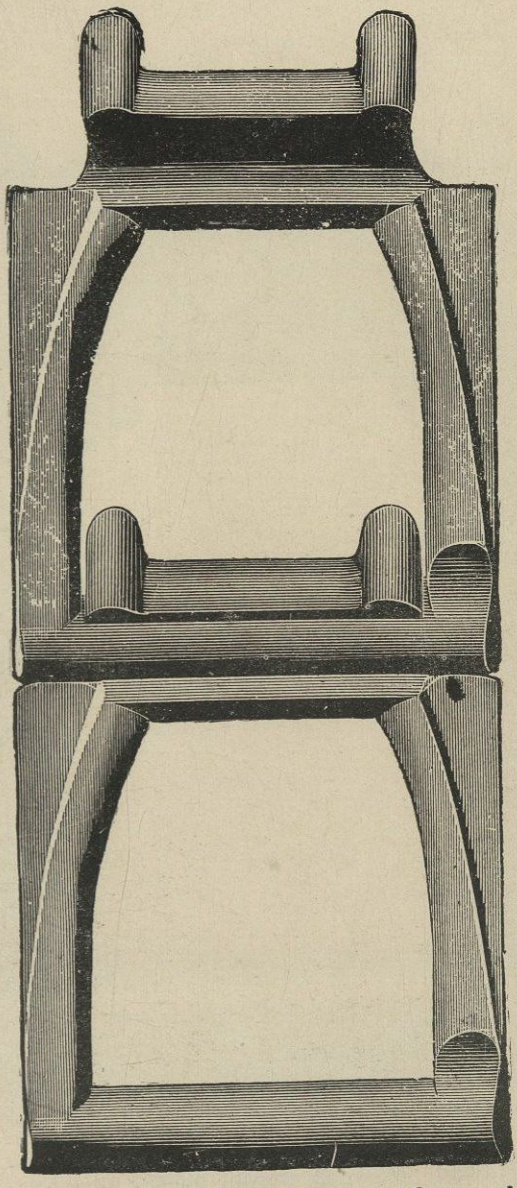
Full Size. Working Strain 800 pounds.

Attachments.

A 1	F 2	H 1	R 1	Coupler
E 1	G 1	K 1	R 3	H 9
F 1	G 6	K 8	S 2	D K

26c per ft.

No. 78



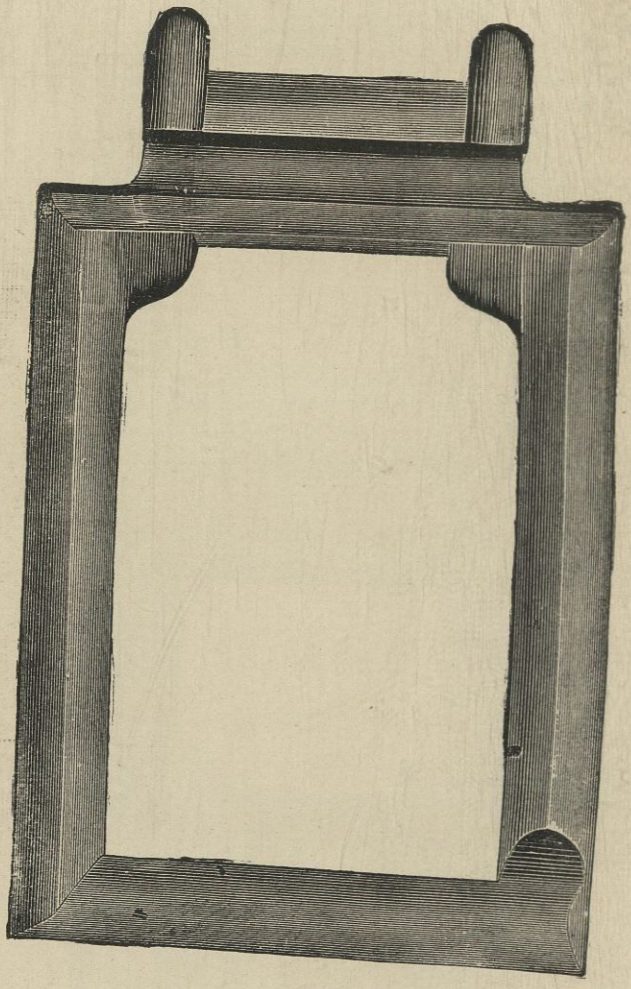
Full Size. Working Strain 1,000 pounds.

Attachments.

A 3	F 2	G 1	H 6	R 1	Coupler
A 11	F 4	G 6	K 1	R 1½	K 6
E 1	F D	H 2	M 3	S 2	R 8 G 19

31c per ft.

No. 83



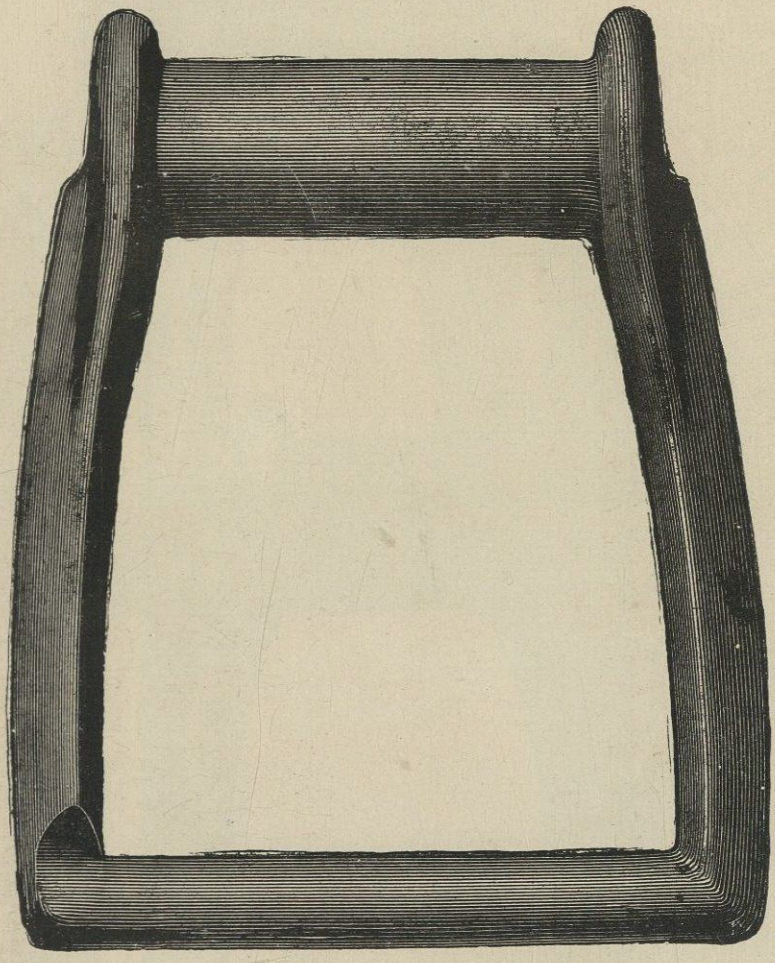
Full Size. Working Strain 1,200 pounds.

Attachments.

A 11	E 2	M	
D 5	G 1	Coupler	
E 1	G 24		

34c per ft.

No. 85



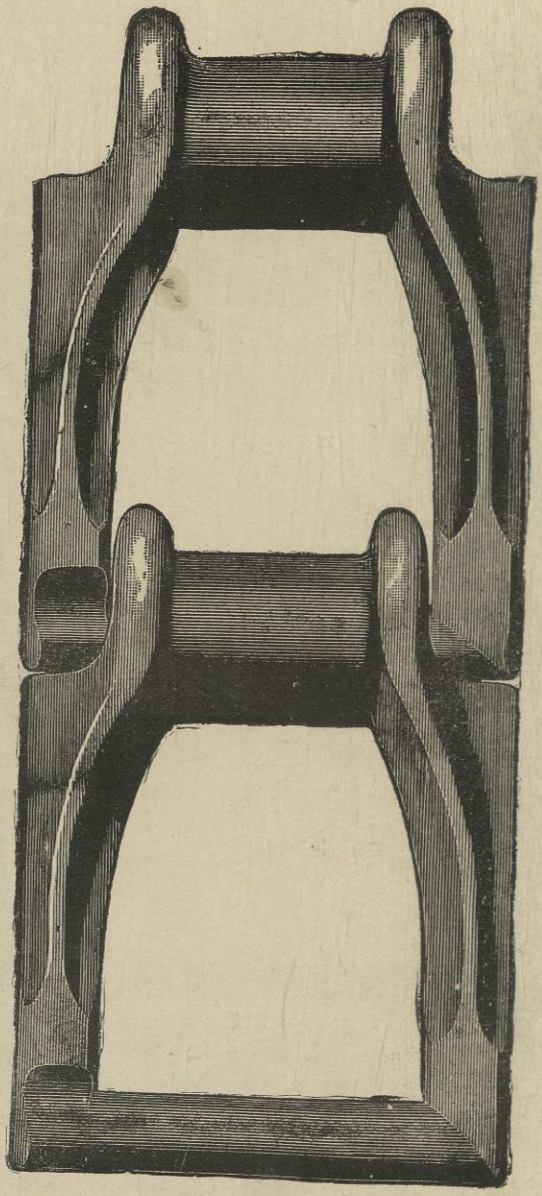
Full Size. Working Strain 1,300 pounds.

Attachments.

F 2	K 3	S 5
F 8	K 7	Coupler
K 2	S 2	F 5

31c per ft.

No. 88

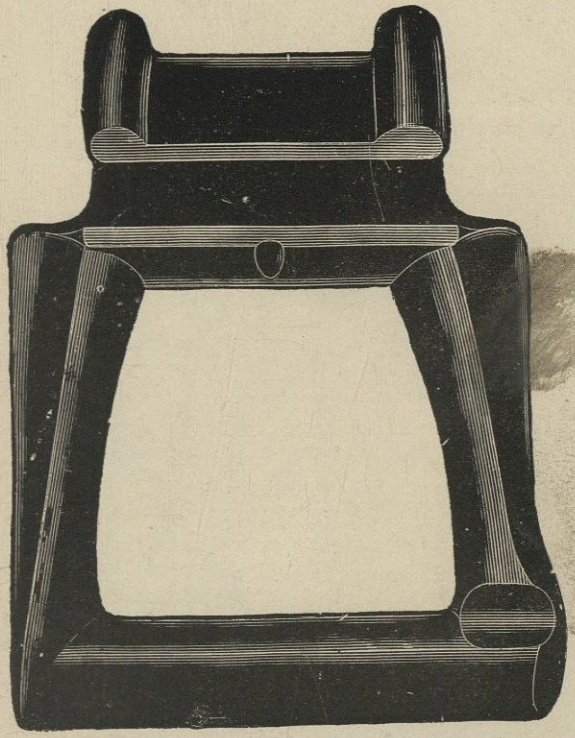


Full Size. Working Strain 1,200 pounds.

Attachments.

A 3	G 6	H 9	H 6	
F 2	G 10	K 1	R 2	
F 8	H 1	R 1	S 2	Coupler

42c per ft
Special.



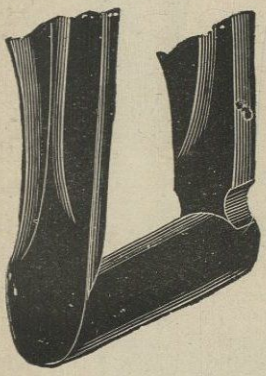
No. 88½

Full Size.

Working Strain 1,600 pounds.

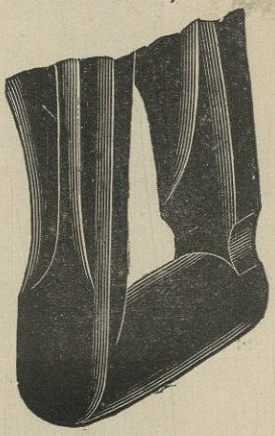
No. 88½ is the same pitch as No. 88, and works on Nos. 75-78-88 Sprocket Wheels. We have received many inquiries for a Chain between No. 88—1,200 lbs. working strain, and No. 103—1,800 lbs. working strain, that would work on the above standard wheels. We have therefore made this No. 88½ to meet these wants.

No. 88



These cuts illustrate the Comparative Strength of the two Chains—Nos. 88 and 88½.

No. 88½

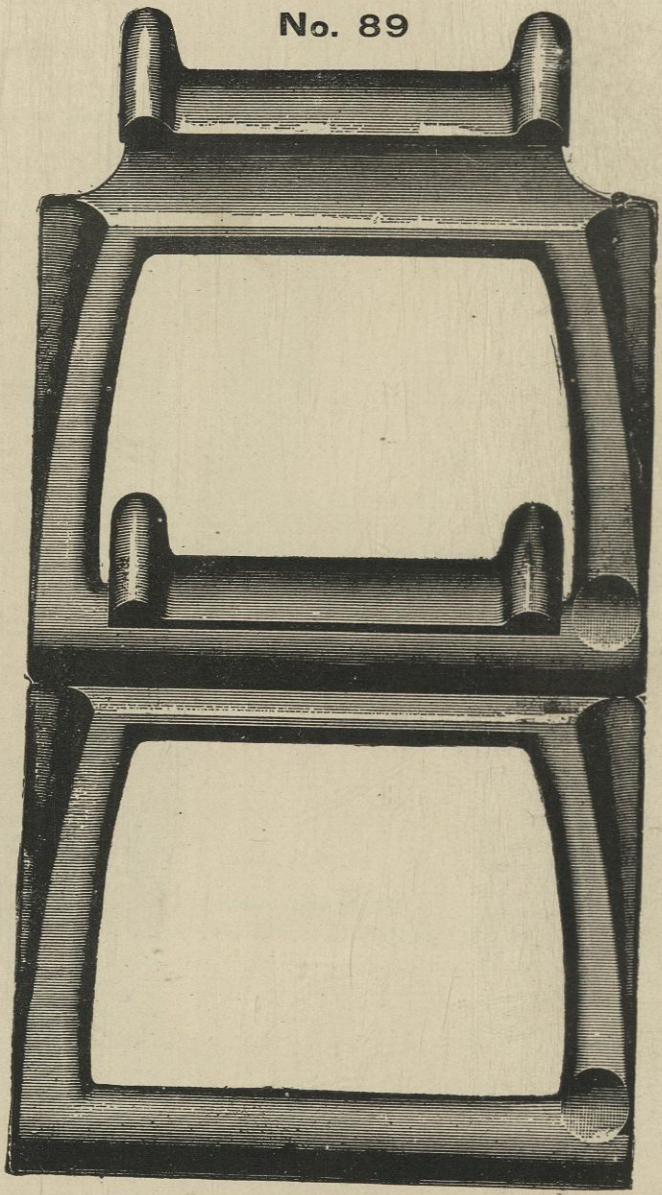


Attachments.

F 2	K 1
G 10	S 2
G 20	Coupler.

40c per ft.
Special.

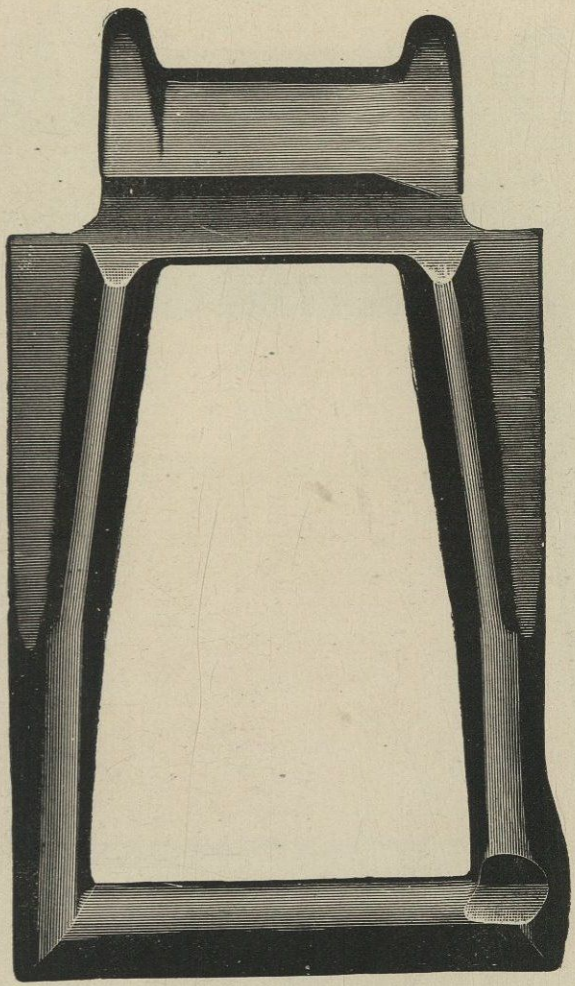
No. 89



Full Size. Working Strain 1,300 pounds.

37c per ft.

No 93



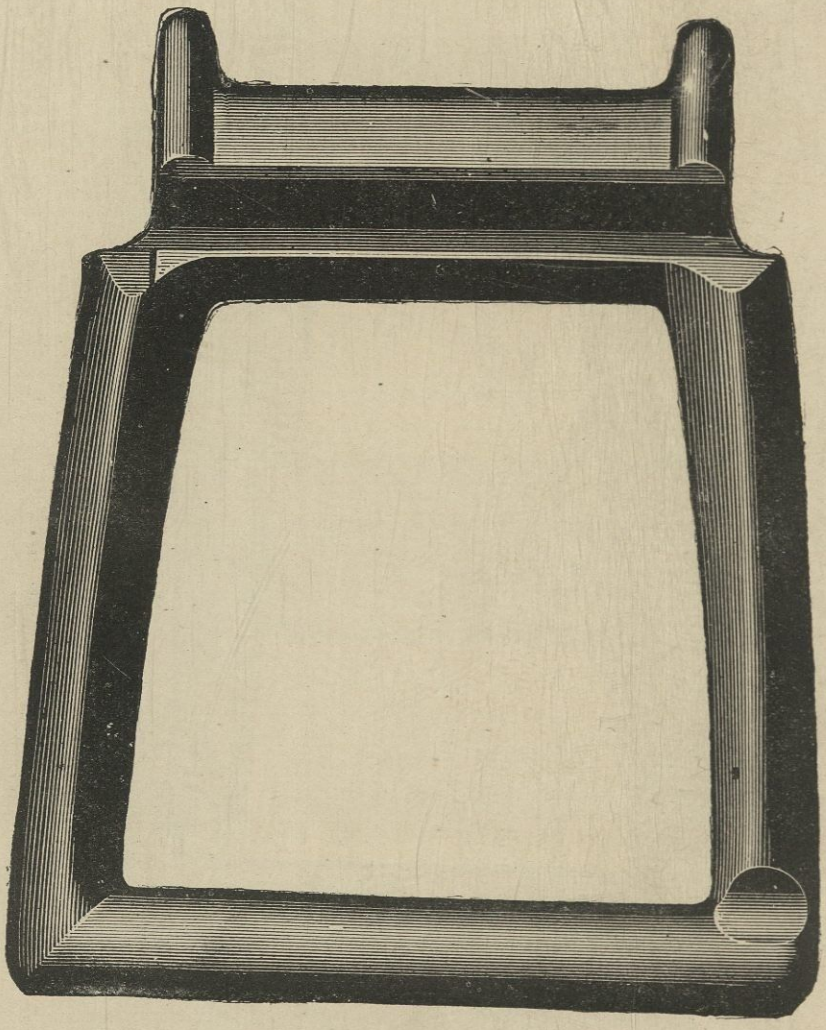
Full Size. Working Strain 1,600 pounds.

Attachment.

A 2.

50c per ft.
Special.

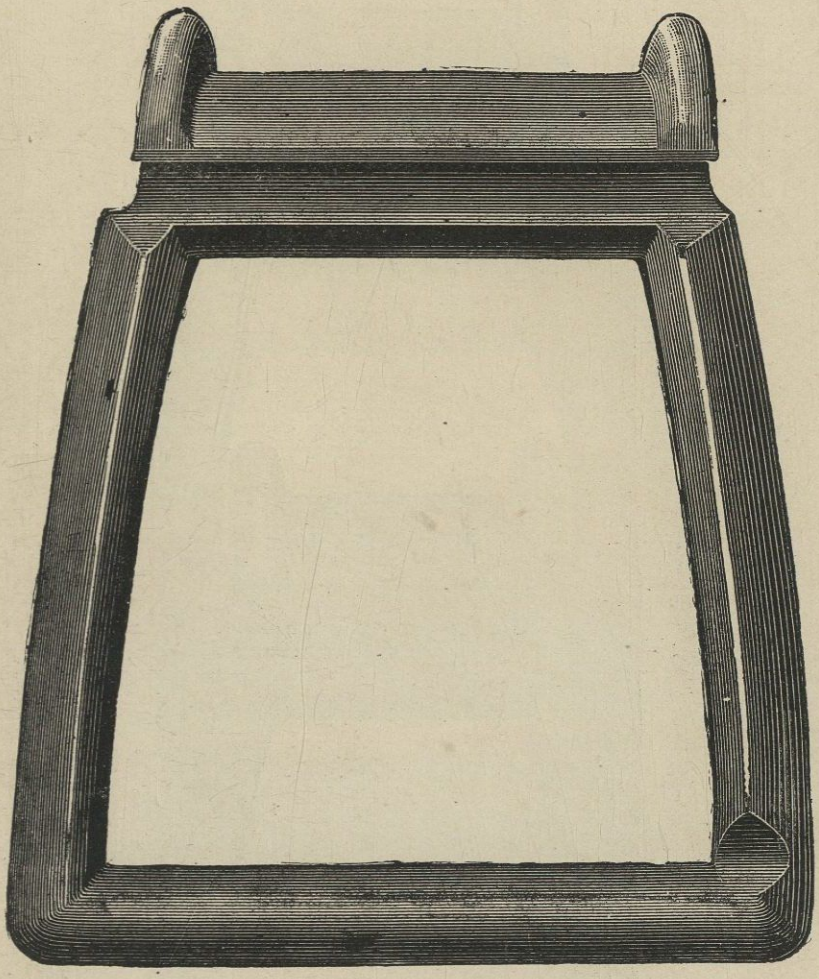
No. 94



Full Size. Working Strain 1,800 pounds.

40c per ft.

No. 95

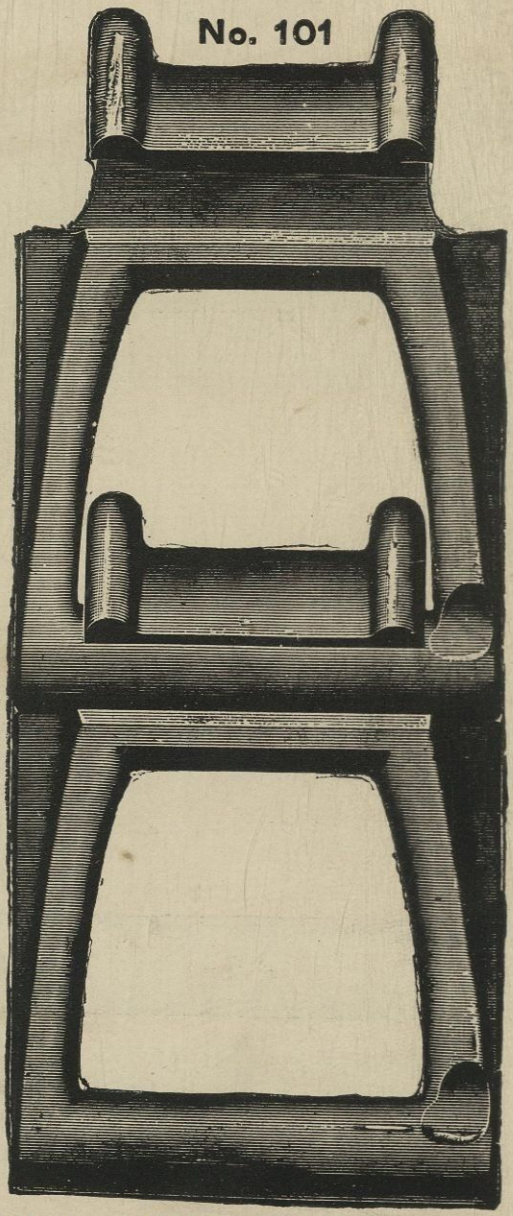


Full Size. Working Strain 1,600 pounds.

Attachments.
F 2
K 2
Coupler.

40c per ft.
Special.

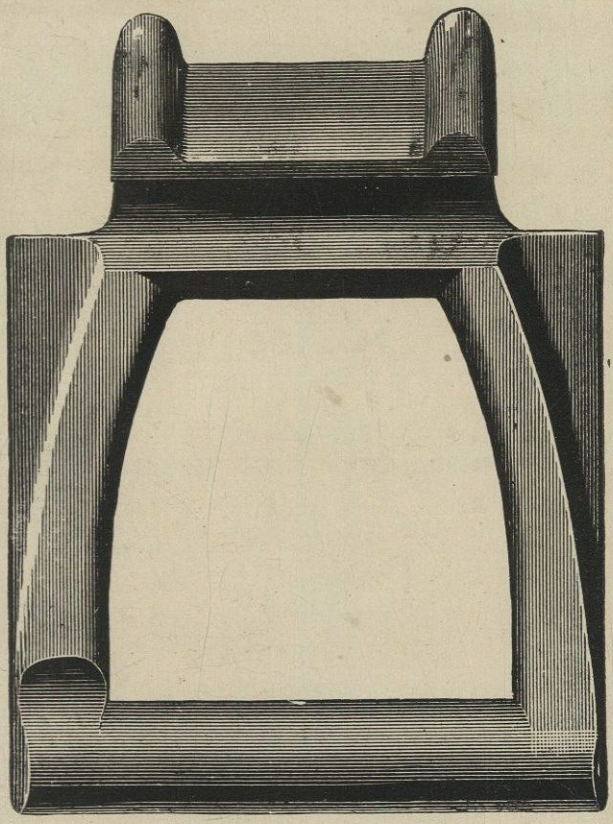
No. 101



Full Size. Working Strain 1,600 pounds.

50c per ft.

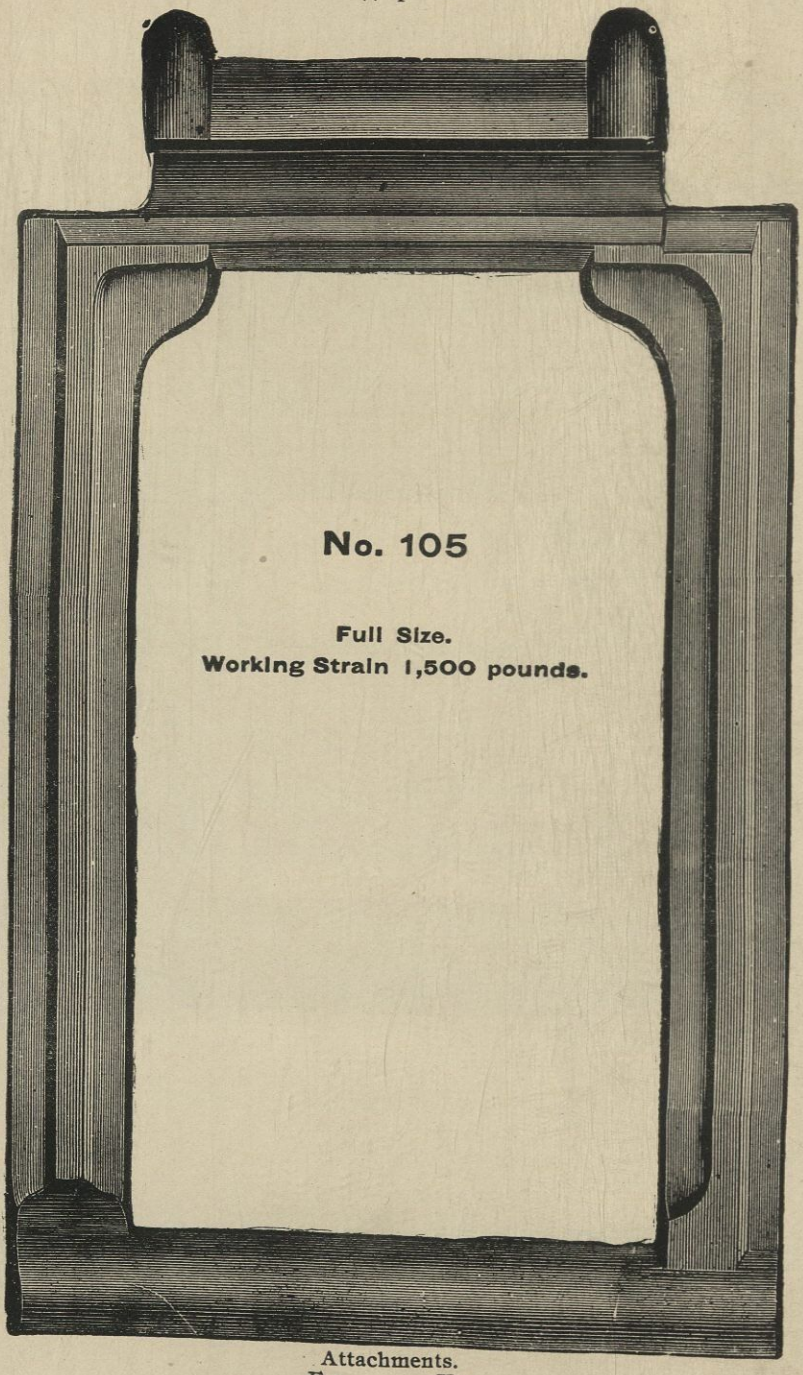
No. 103



Attachments.

A 1	G 6		
A 4	H 1		
A 11	H 2		
D D	H 14		
E 1	K 1	R 5	
F 2	M 3	C'plr.	
F 8	R 1		

44c per ft.



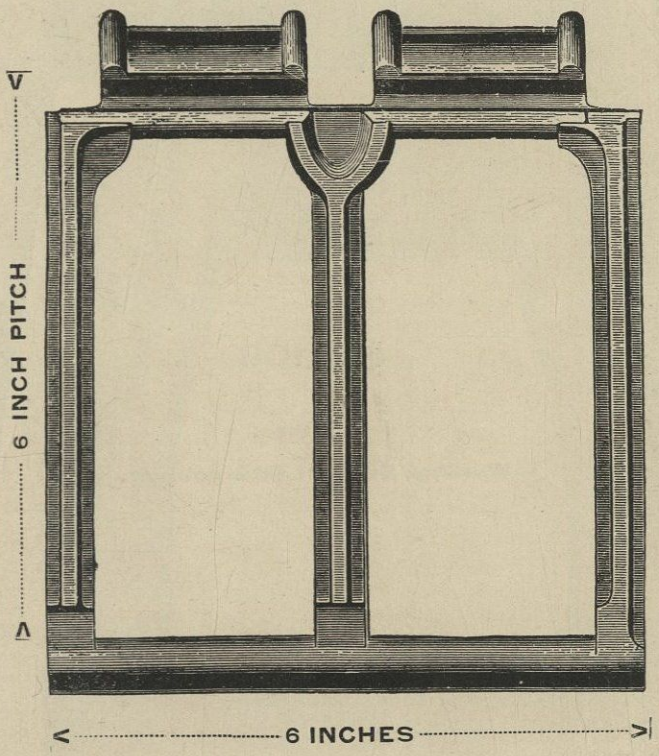
No. 105

Full Size.
Working Strain 1,500 pounds.

Attachments.
F 1 K 2

57c per ft.
Special.

No. 106

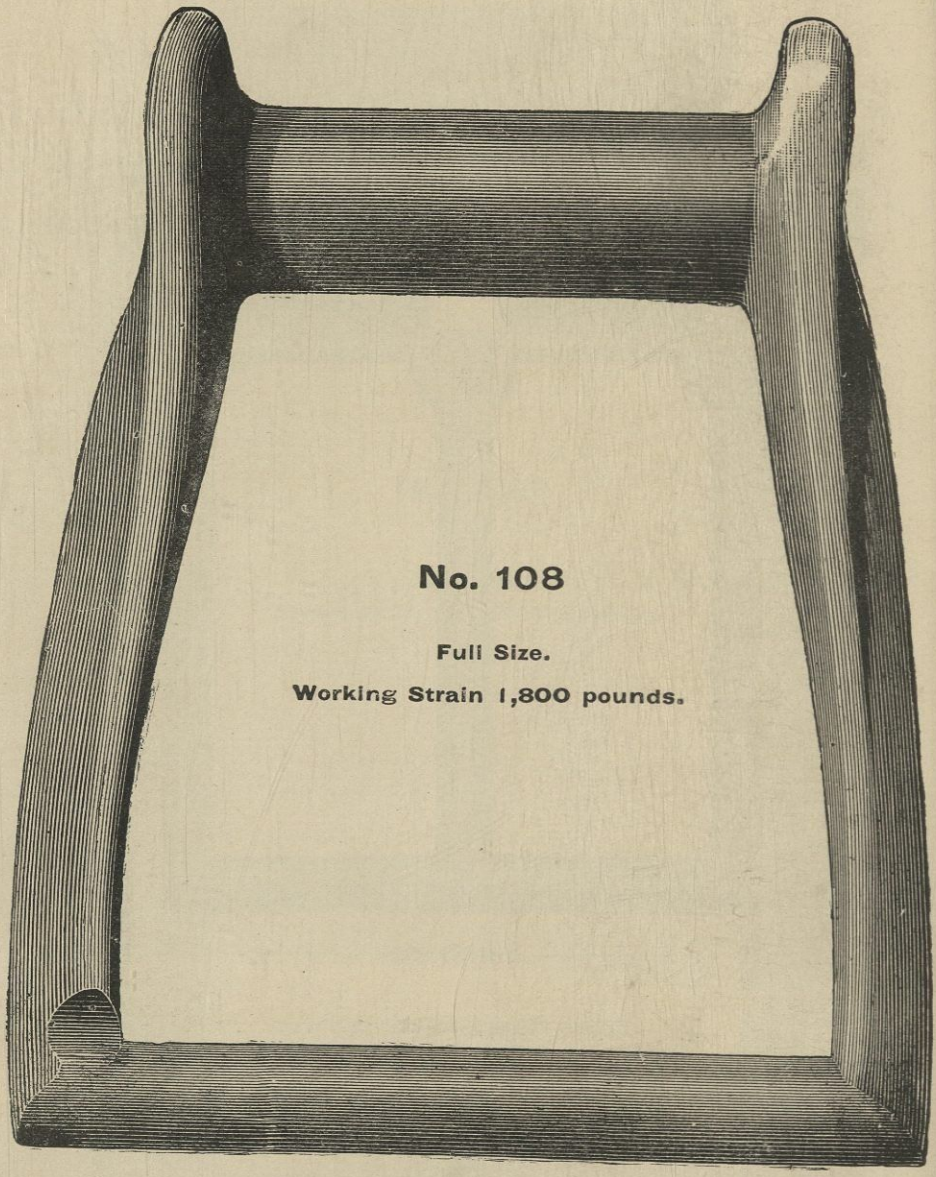


NOTE:—This Cut is one-half size.

Working Strain 2,000 pounds.

Attachment.
K 2

63c per ft.



No. 108

Full Size.

Working Strain 1,800 pounds.

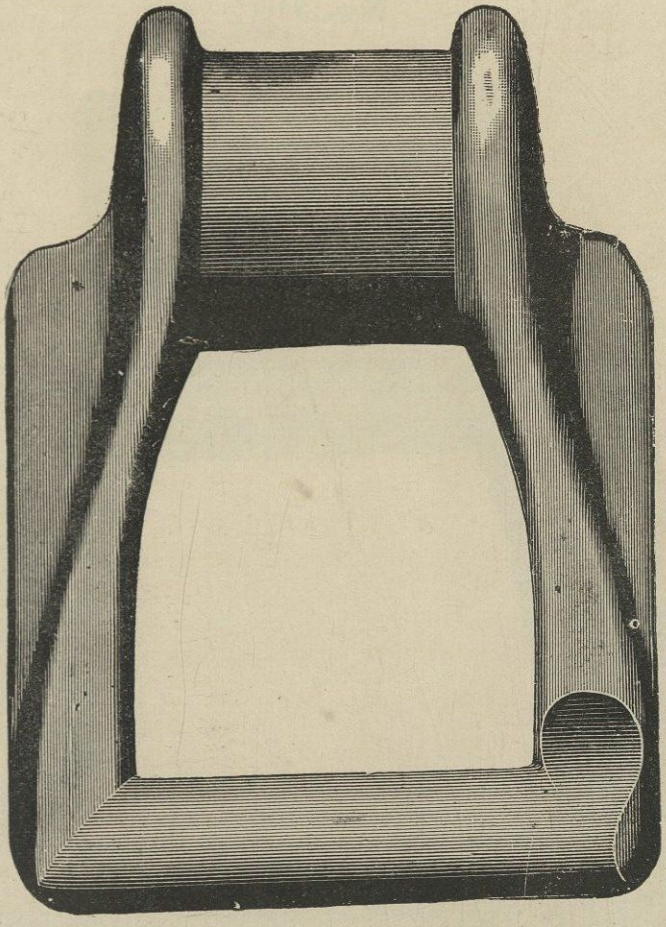
Attachment.

F 2 K 2

Coupler

63c per ft.

No. 114



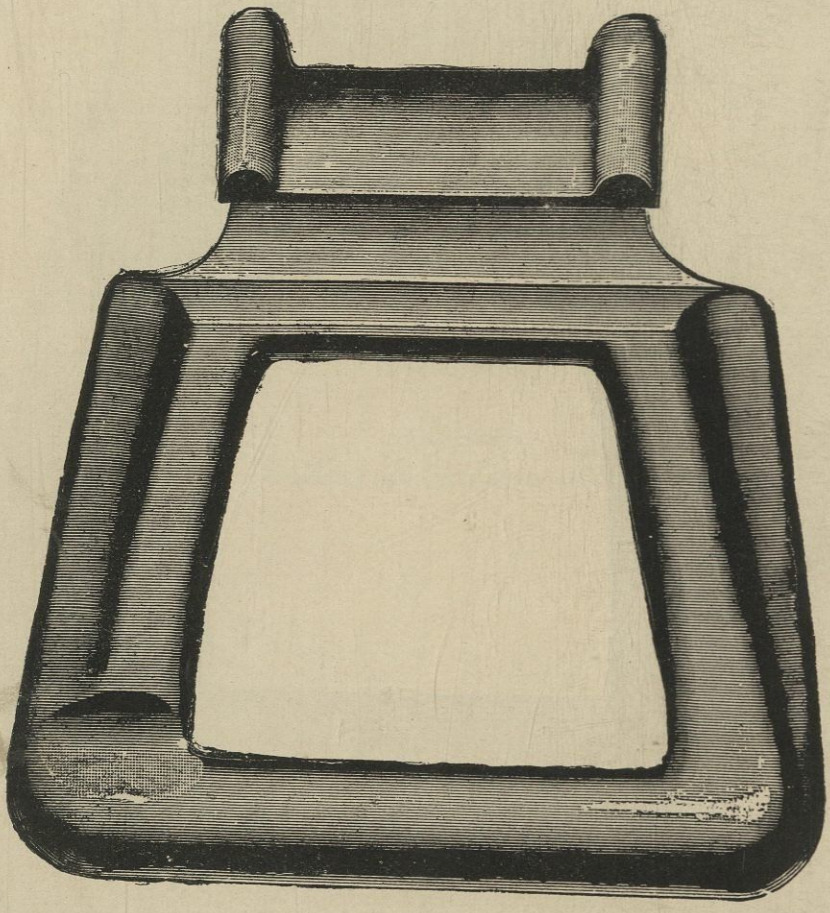
Full Size. Working Strain 2,000 pounds.

Attachments.

A 11	K 1
F 2	L 2
F 8	Coupler.

82c per ft.
Special.

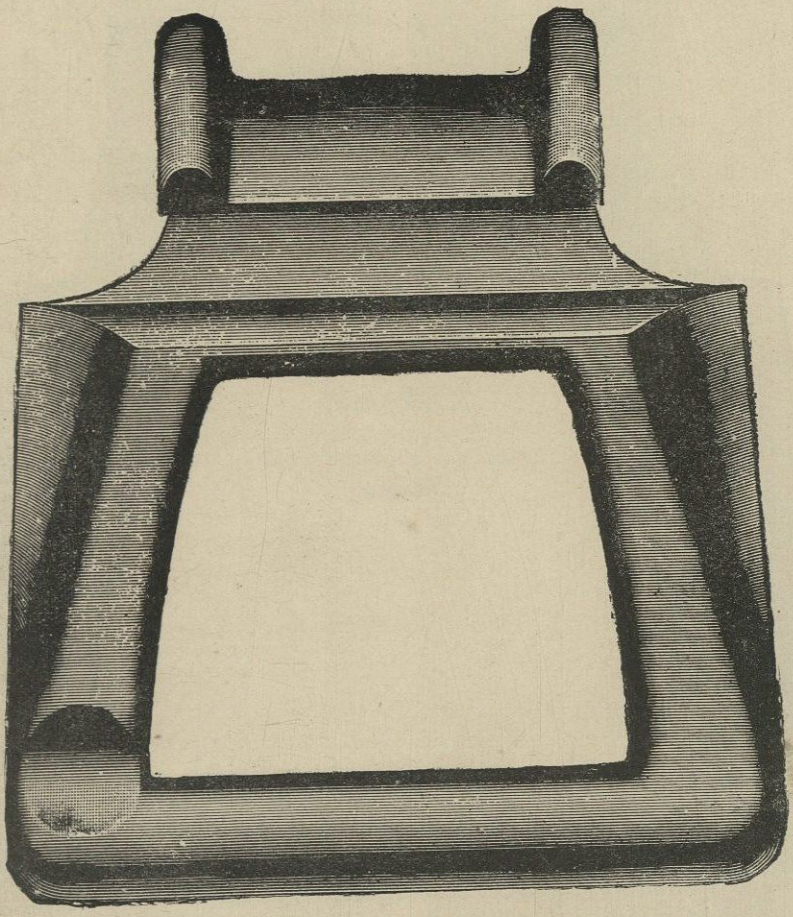
No. 115



Full Size. Working Strain 2,050 pounds.

82c per ft.
Special.

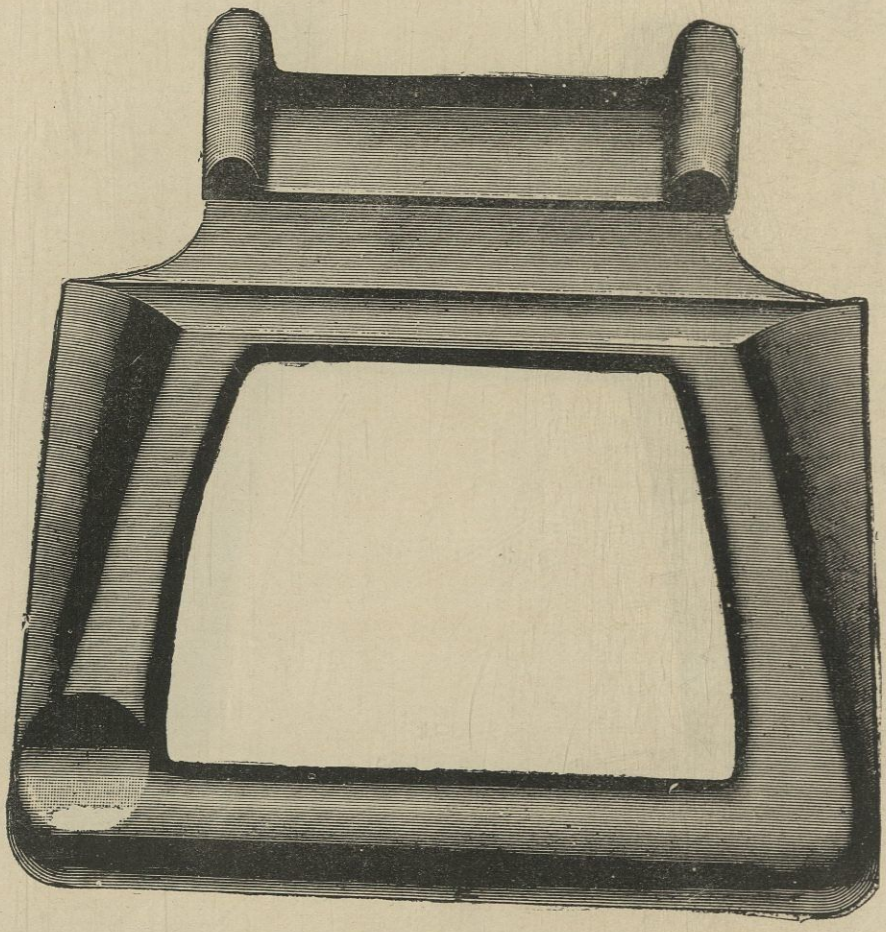
No. 117



Full Size. Working Strain 2,150 pounds

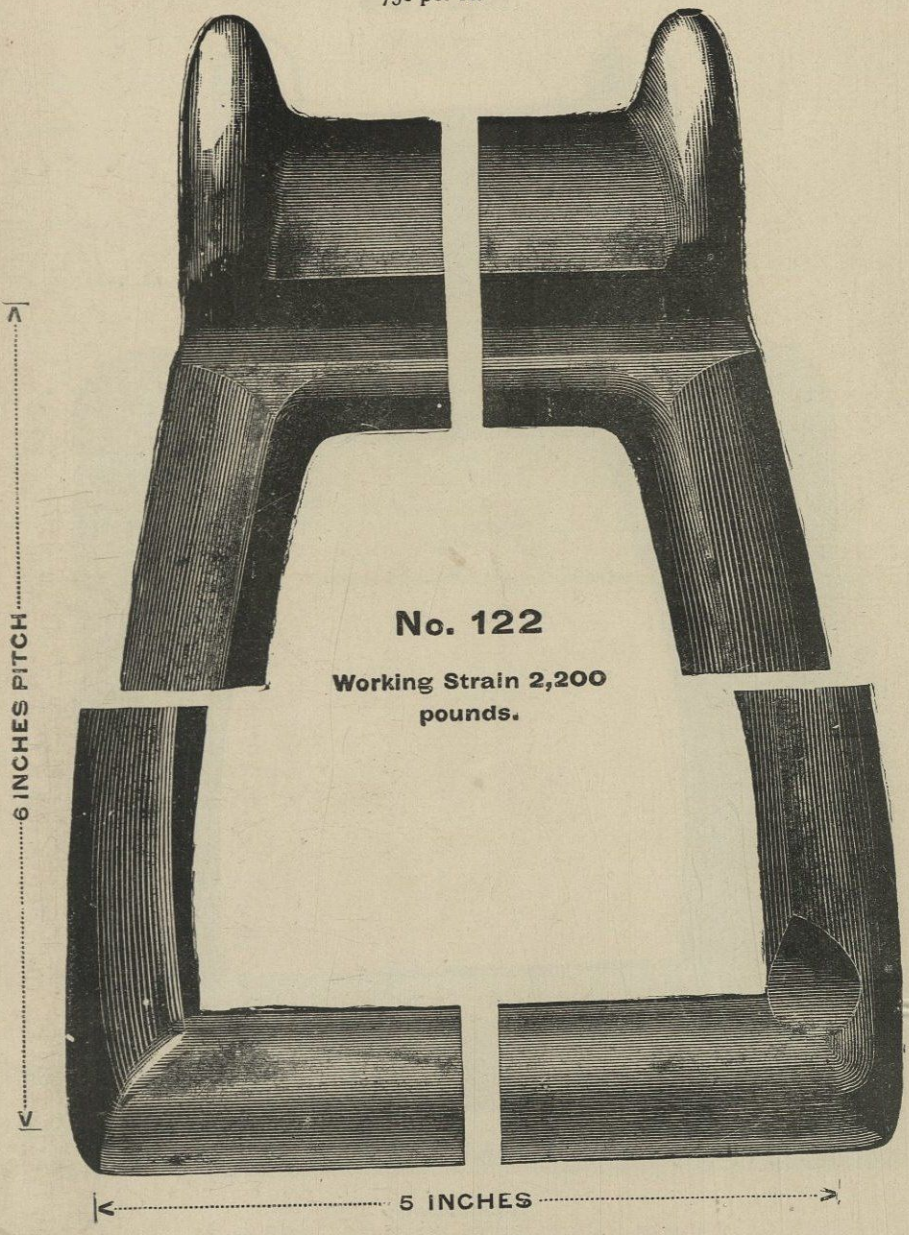
82c per ft.
Special.

No. 118



Full Size. Working Strain 2,200 pounds.

75c per ft.



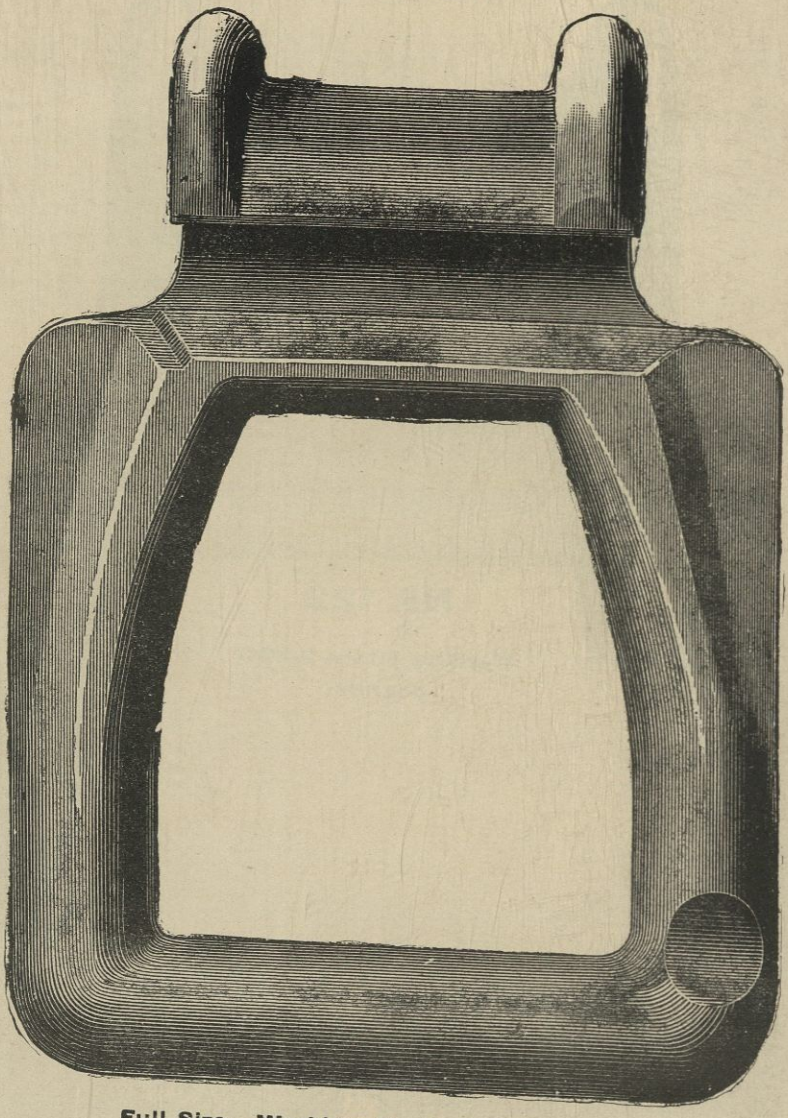
No. 122

Working Strain 2,200 pounds.

Attachments.
F 2 K 2
Coupler.

75c per ft.

No. 124



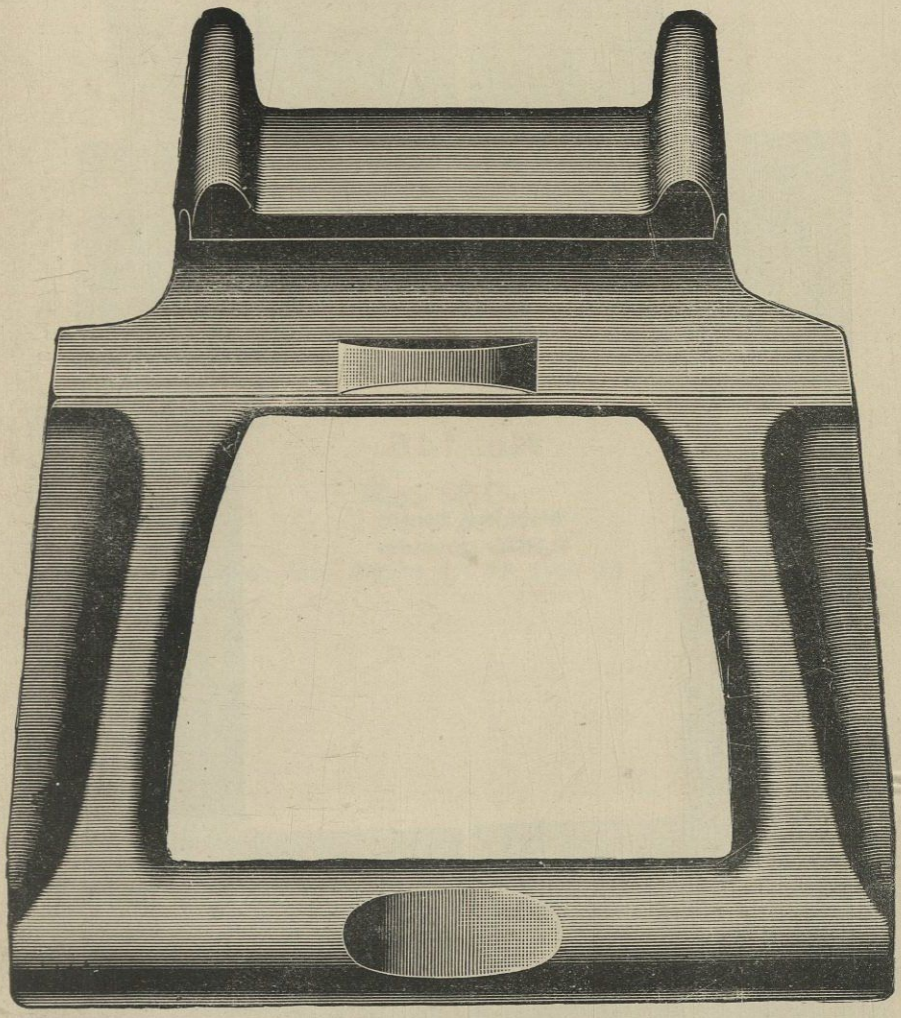
Full Size. Working Strain 2,250 pounds.

Attachments.

A 4	G 1
D D	G 6
F 2	K 1
F 8	Coupler.

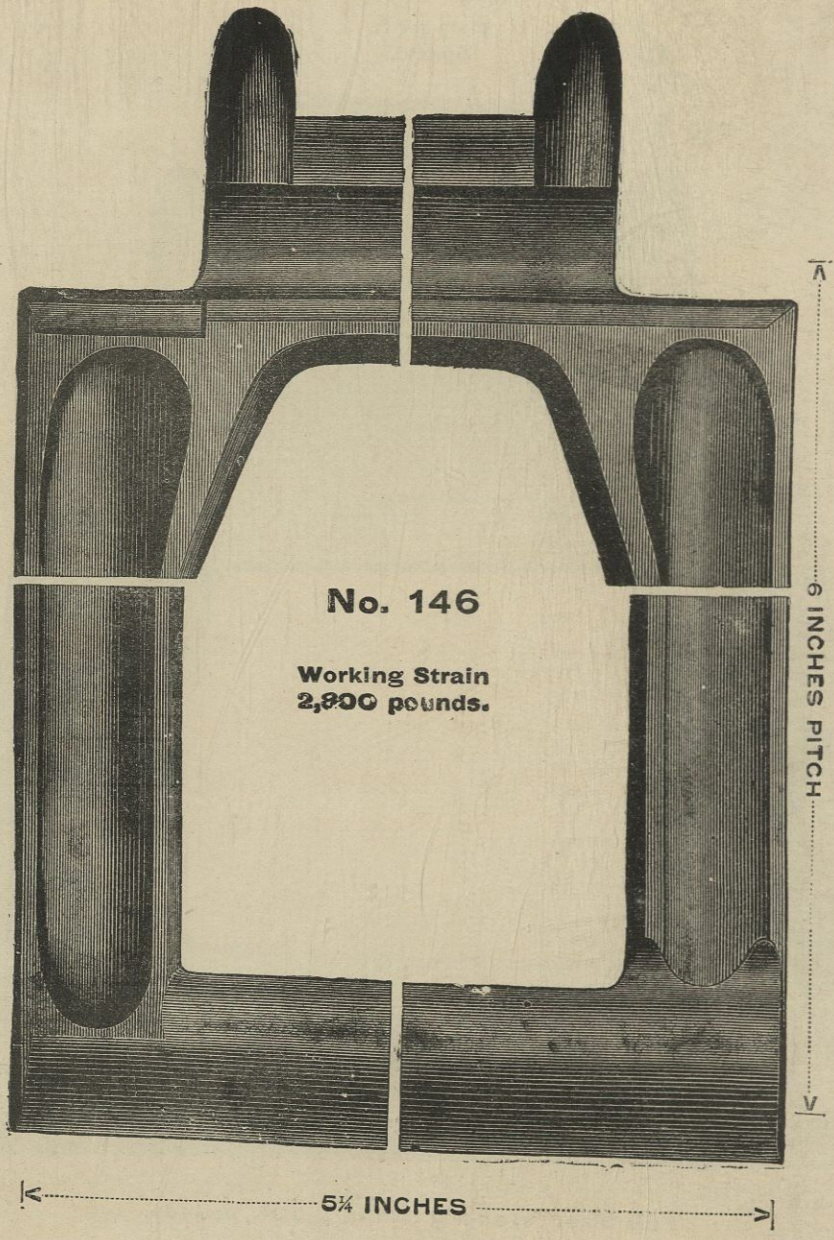
$1.13 per ft.
Special.

No. 130



Full Size. Working Strain 2,500 pounds.

75c per ft.

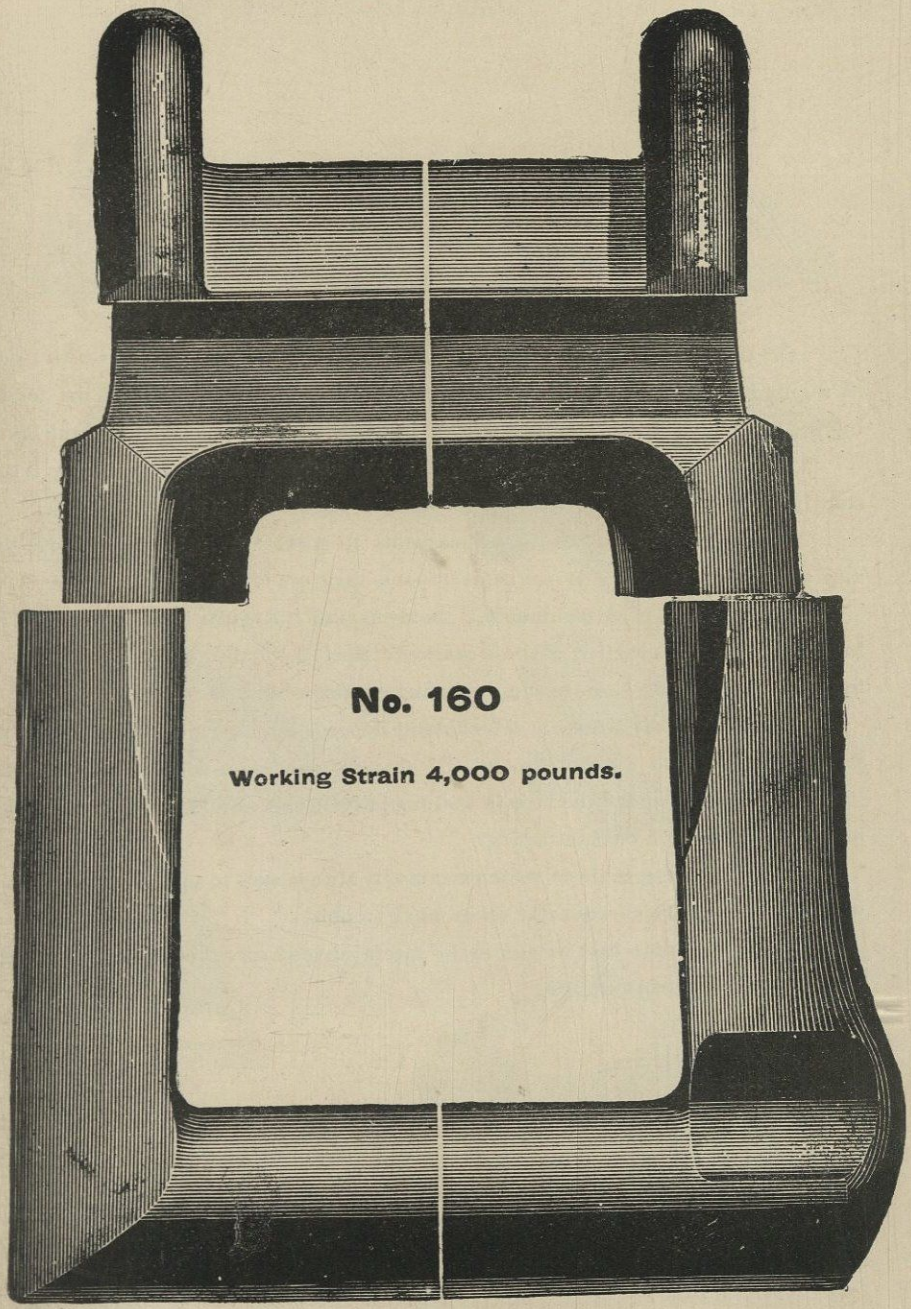


Attachments.

F 2 F 5

K 2

$1.00 per ft.


No. 160
Working Strain 4,000 pounds.
10¾ INCHES PITCH
9¾ INCHES

On pages 10, 11 and 12 we give "List of Attachments," together with prices as regularly made for the different numbers of Chain as noted, and on the following pages we give illustrations of some of the many styles of these Attachment Links.

There are more than 500 of these Attachment Links made, and this list is constantly being added to as different users develop the demand.

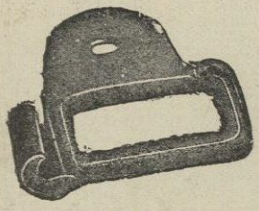
We are prepared to furnish Attachments to meet any possible condition that may arise where these goods can be used—and their use is world-wide and enormous.

In our "List of Attachments," those marked "Regular" we generally have in stock and sometimes part of those marked "Special," but frequently it is necessary to have the "Special" ones made, requiring considerable time to do it.

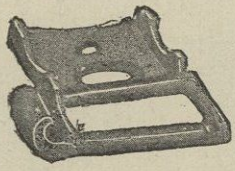
The price of the "Special attachments depends largely upon the shape of the attachment, some of the peculiar or odd shape attachments costing more than the "Regular" attachments, therefor in making estimates on the price of special attachments you had better consult us first.

When ordering chain or attachments it is always well to send a *sample link* of what is wanted. This frequently saves much trouble.

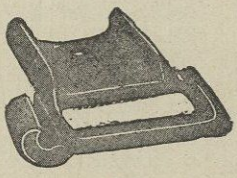
Also please note that we can make special shaped sprockets, *i. e.*, hub on one side, or longer on one side, etc.



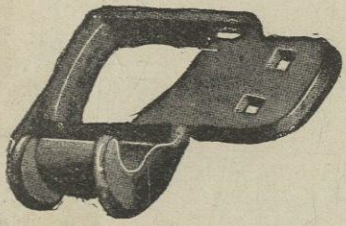
A1



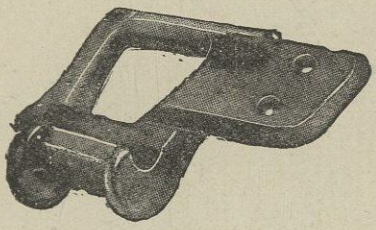
A2



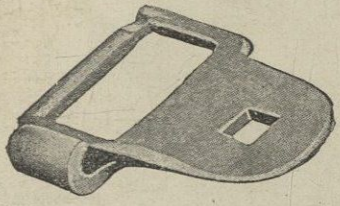
A3



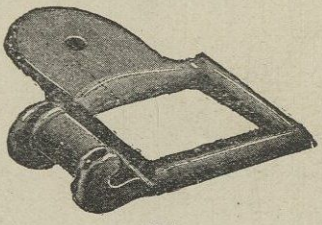
A4



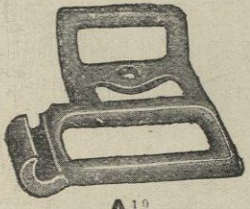
A5



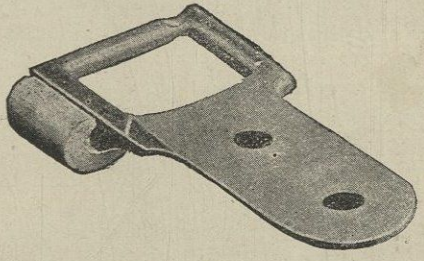
A6



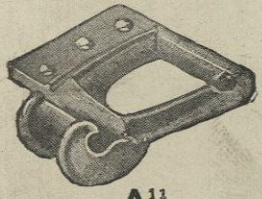
A7



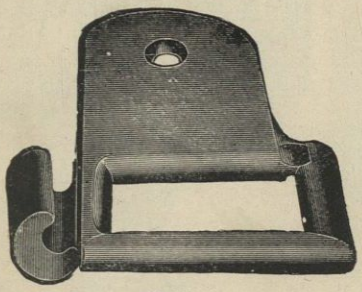
A10



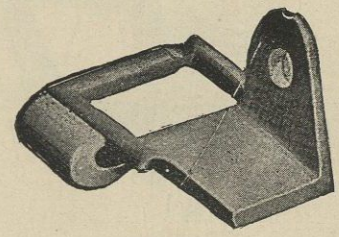
A12



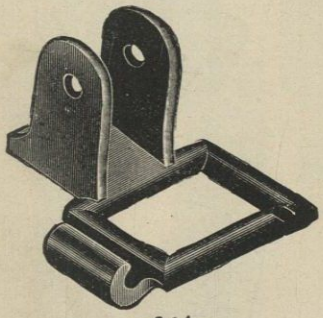
A11



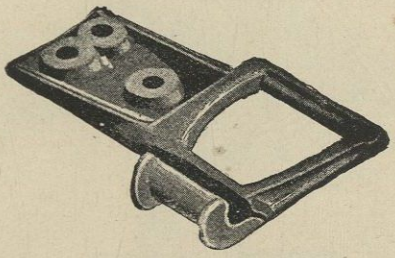
A 1 2 1/2



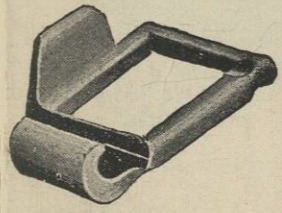
A 13



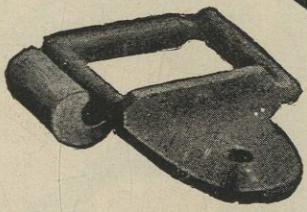
A 14



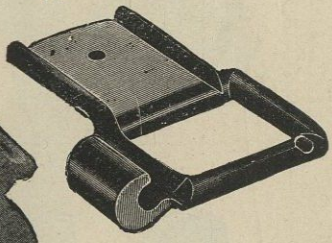
A 16



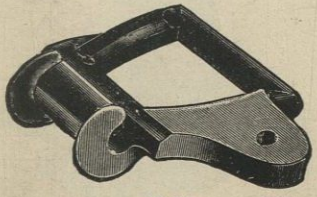
A 17



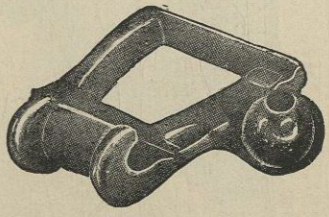
A 18



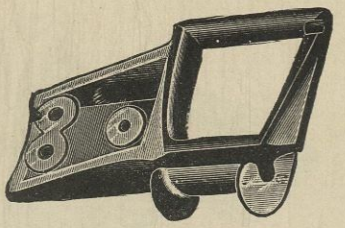
A 20



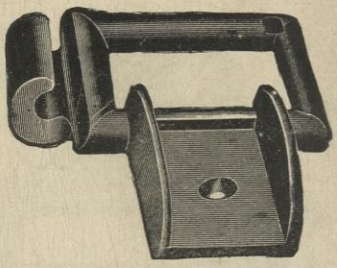
A 22



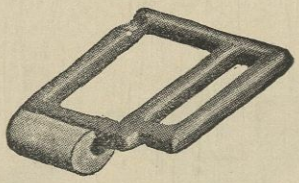
A 24



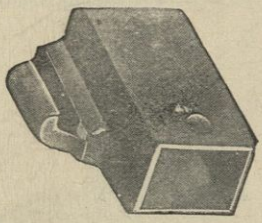
A[28]



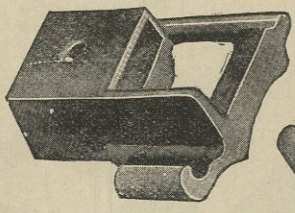
A[29]



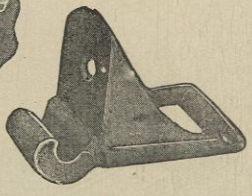
A—Strap



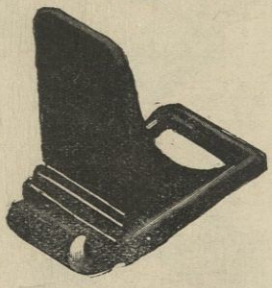
B[1]



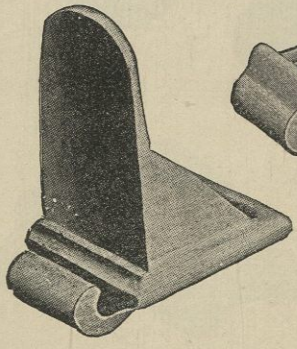
B[3]



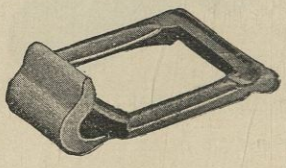
C[1]



C[2]



C[5]



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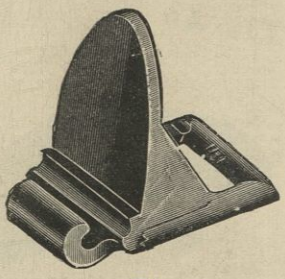

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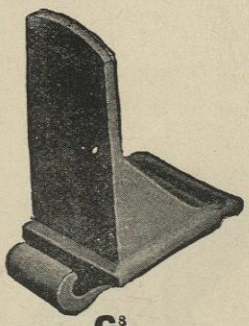

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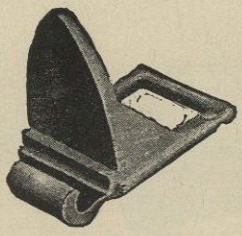

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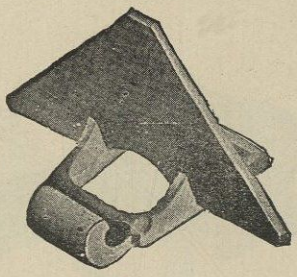

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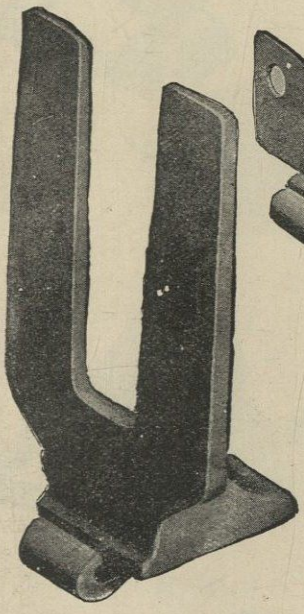

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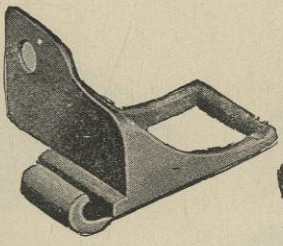

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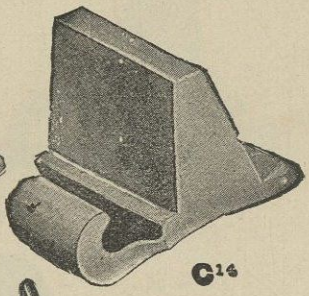

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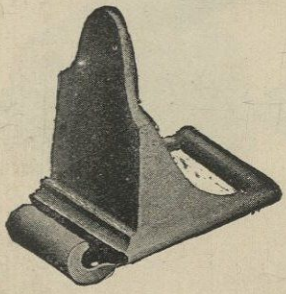

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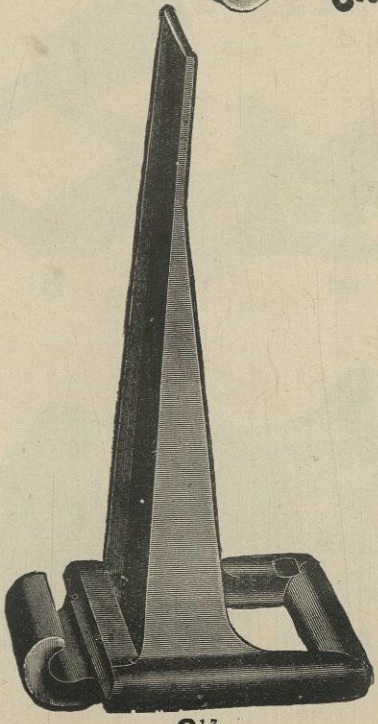

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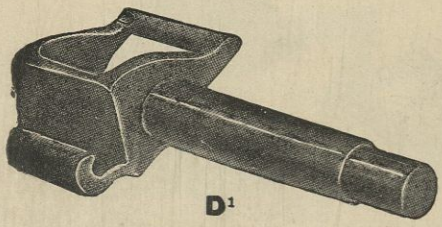

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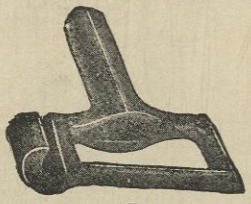

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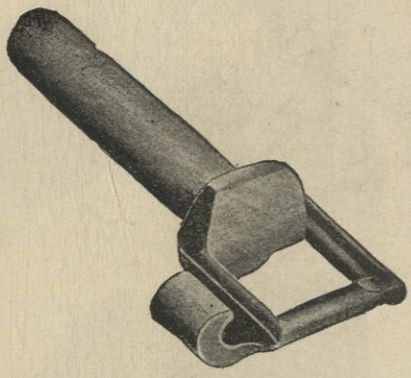

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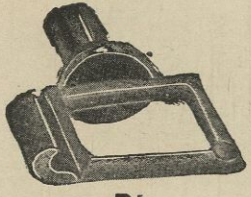

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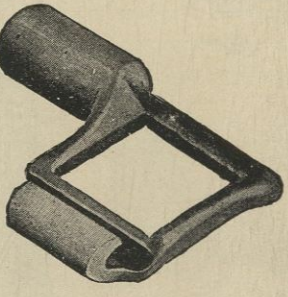

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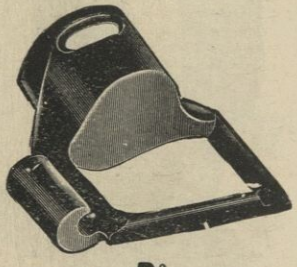

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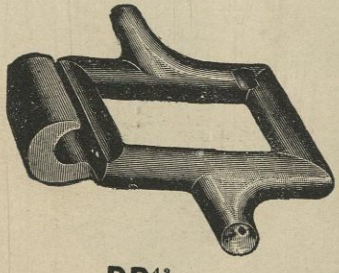

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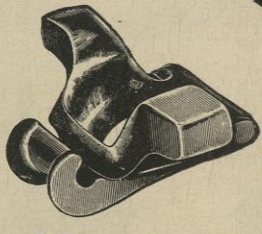

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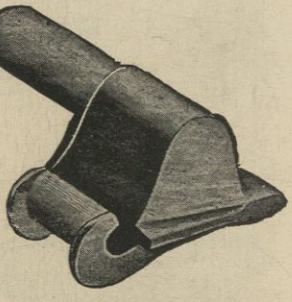

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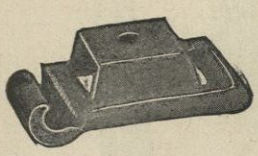

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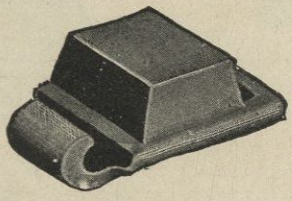

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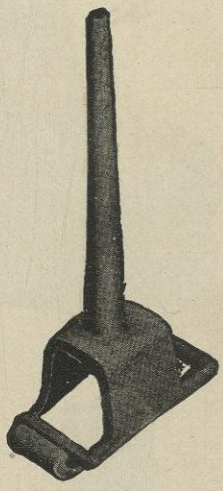

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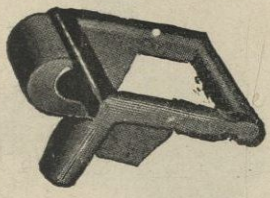

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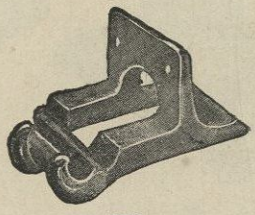

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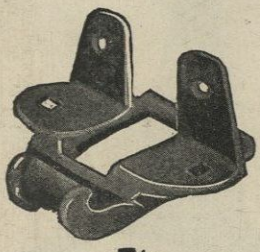

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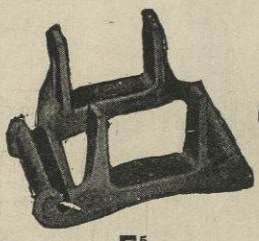

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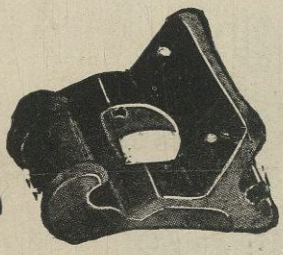

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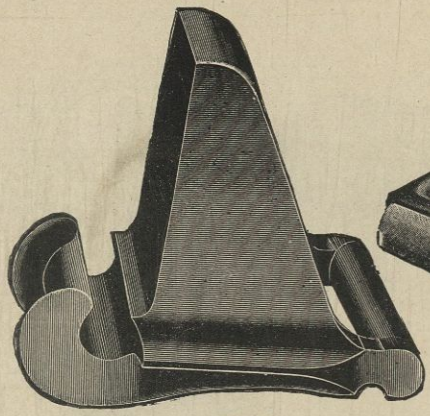

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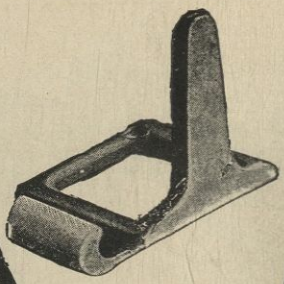

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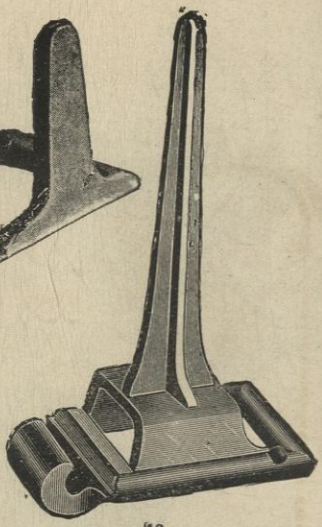

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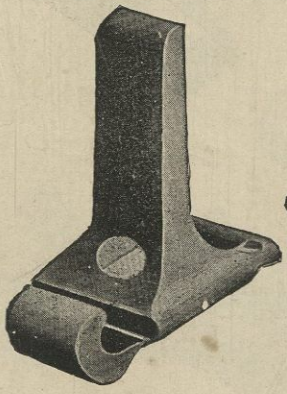

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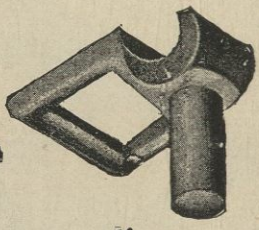

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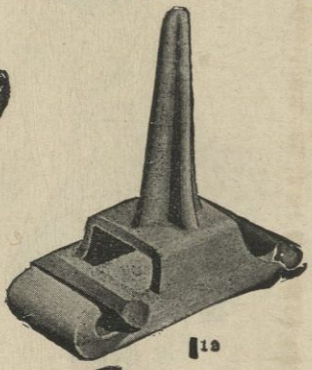

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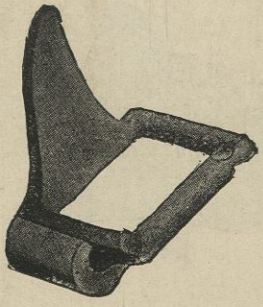

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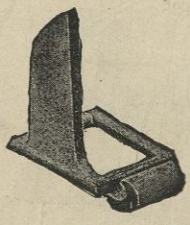

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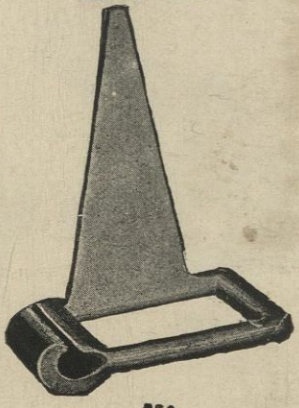

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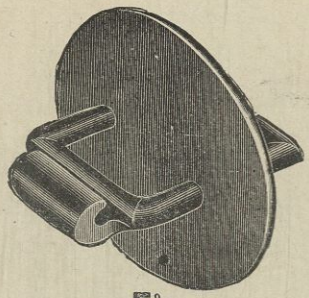

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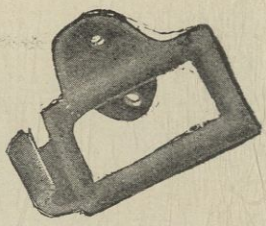

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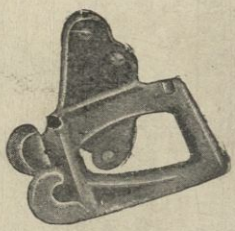

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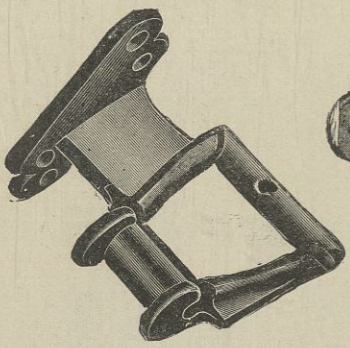

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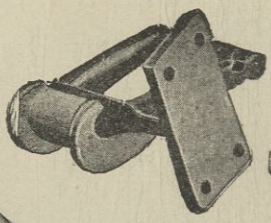

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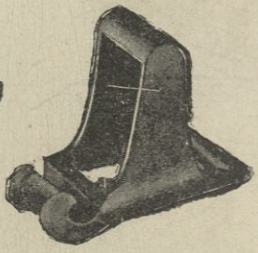

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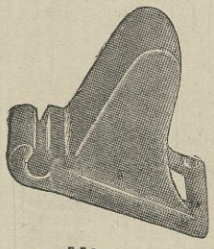

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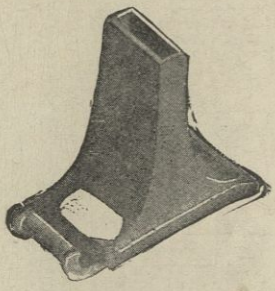

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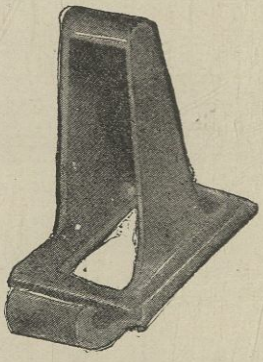

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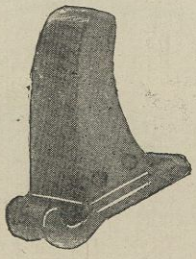

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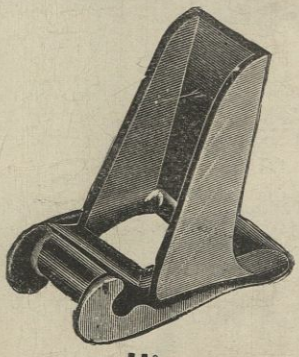

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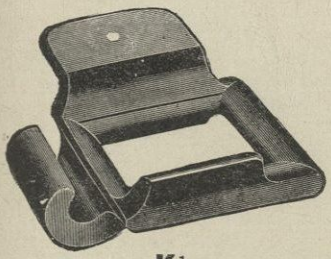

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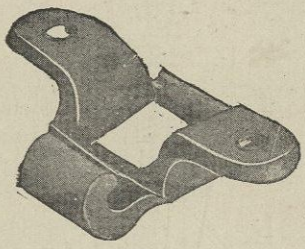

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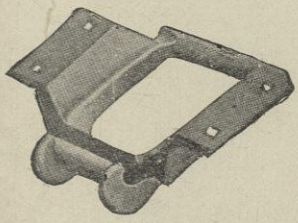

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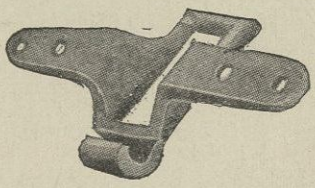

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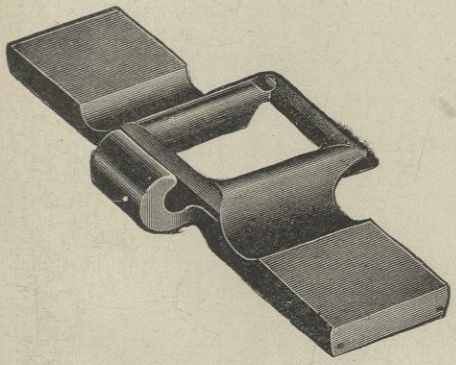

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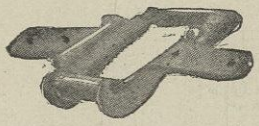

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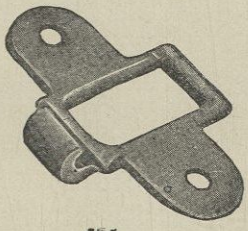

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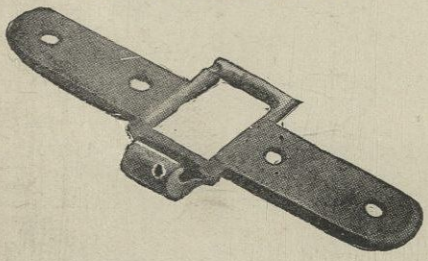

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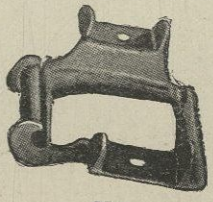

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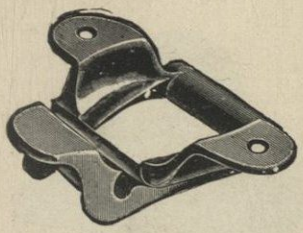

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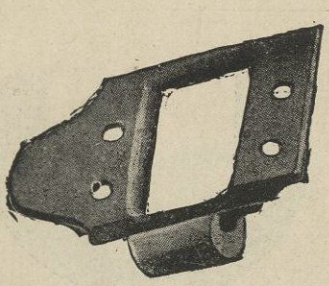

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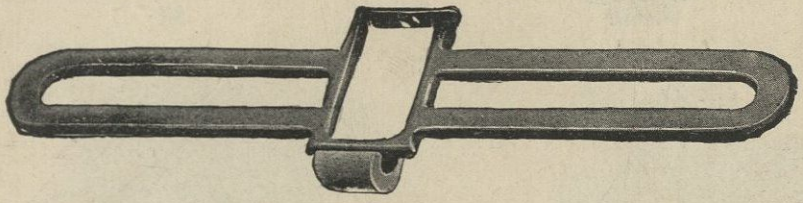

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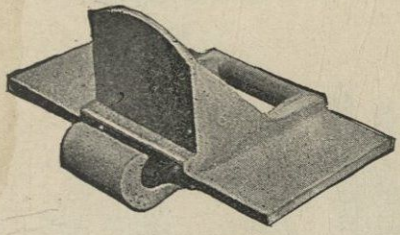

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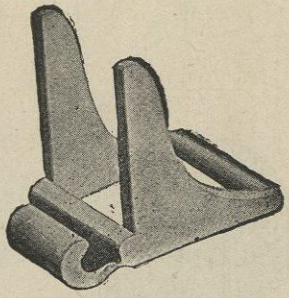

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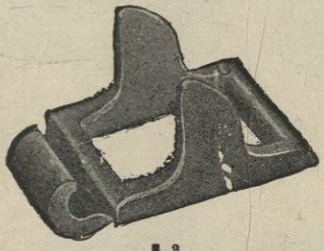

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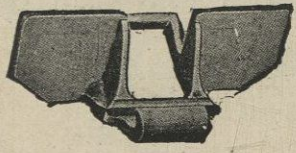

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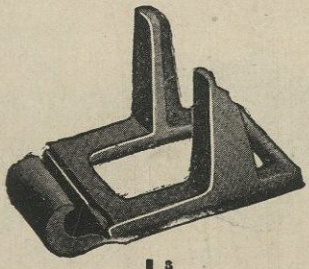

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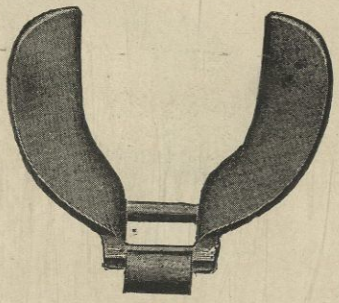

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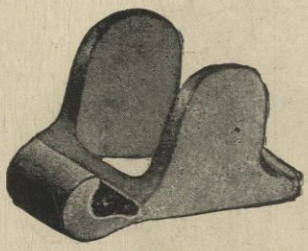

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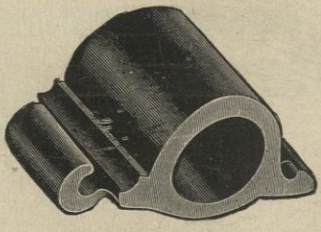

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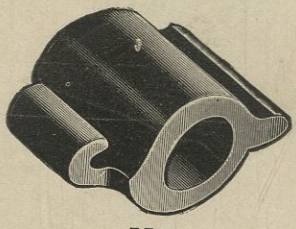

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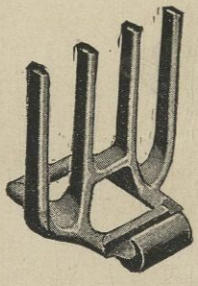

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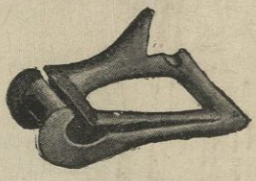

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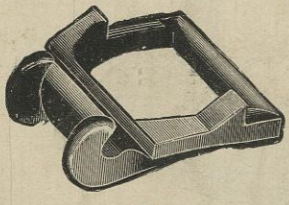

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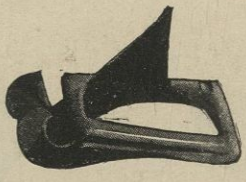

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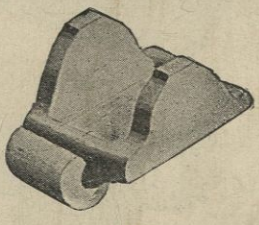

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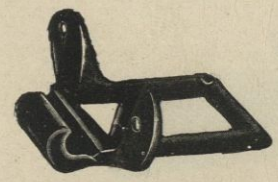

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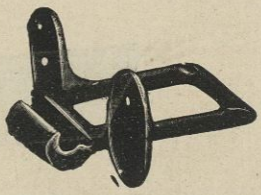

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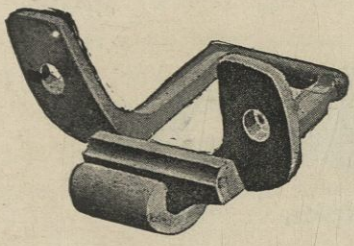

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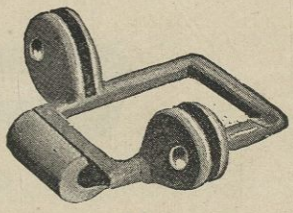

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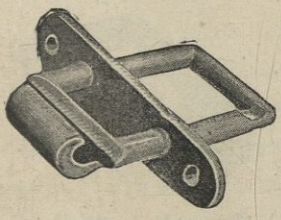

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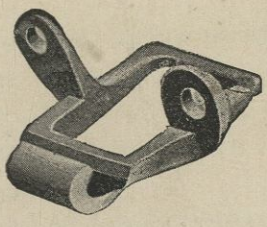

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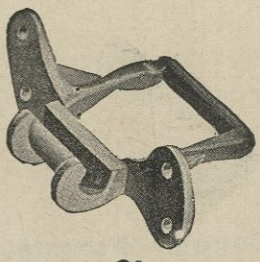

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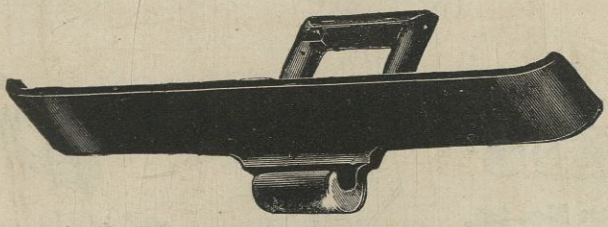
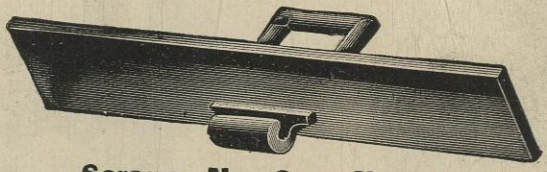
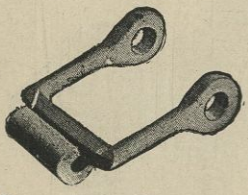


Scraper No. 2 on No. 45.

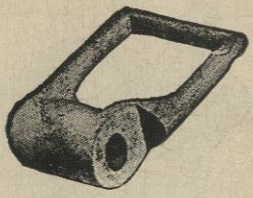


Scraper No. 6 on No. 45.

Coupling Links.



Coupler—Female.



Coupler—Male.

Swivel on No. 52.

Socket on No. 52.

Special Malleable Chain.

On the following pages we illustrate some of our special chains adapted to our common sense conveyors and elevators; also for many other purposes. Please note that we make very many different kinds, from 4 inches to 24 inches pitch.

Our No. 085 chain with 4 inches pitch is adapted for elevators using sprocket wheels of small diameter.

Our No. 095 chain is adapted for the same purpose using from 18 inches to 36 inches sprocket wheels.

Our No. 20 is adapted for very heavy elevators and conveyors. It has 8 inches pitch and can be used on sprocket wheels from 24 inches up to 48 inches. A single strand of chain will carry heavy malleable buckets 20 inches wide.

Our No. 30 is made very strong and is especially adapted for heavy conveyors and elevators and can be used on sprocket wheels from 24 inches to 60 inches diameter.

Our No. 017 chain is made of light pattern 12 inches pitch and can be used for very many purposes.

It can be used on sprocket wheels 24 inches, 36 inches and 48 inches.

Our No. 10 Chain is of very light pattern but strong, and adapted for medium light work.

Our No. 50 Chain is especially adapted for conveying coal, coke, sand, gravel and all kinds of merchandise, bales of hay, straw, etc.

Our No. 100 Chain is a special heavy chain called "Unbreakable." Used for all kinds of heavy work.

Our No. 80 Chain is also adapted for heavy work, such as conveying large amounts of coal, pig iron, steel billets, etc.

Our No. 75 Chain is very heavy, and is also used for conveying coal, iron ore, etc., in large quantities.

We can make special attachments for any of these chains.

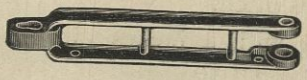
Special Malleable Chain.

No. 017

Attachment.

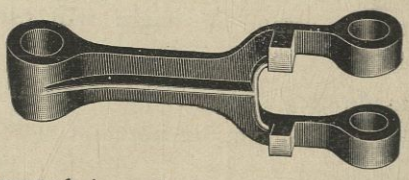
This chain is especially adapted for conveying almost any kind of material and is very convenient for conveyors used in grading, digging cellars, conveying ashes, gravel and all similar work, also ice and merchandise of all kinds.

It is of light pattern. Has K. & F. attachments.



This is made very strong and of medium light weight and is especially adapted for attaching to the end of buckets using 2 strands. See page 107.

No. 30 Chain.



This is a special heavy chain made for conveying and elevating purposes. It has K. & F. attachments.

DIMENSIONS AND PRICES.

No.	Width.	Length or Pitch.	Working Strain.	Price per Foot—Malleable.	Price per Foot—Steel.
017	2¾ inches.	12 inches.	2,000 lbs.	$ .40	
30	4½ "	12 "	10,000 lbs.	1.20	$1.60

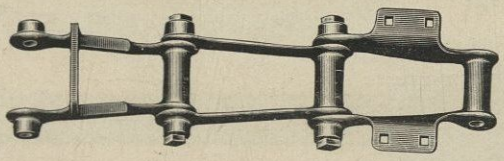
Add 10 per cent for attachments.

SPROCKET WHEELS.

No.	24 inches.	36 inches.	48 inches.
017	$13.00	$20.00	$35.00
30	26.00	40.00	60.00

Special Malleable Chains.

No. 085 and No. 095 Chain.



Made of malleable iron and especially designed for elevators and conveyors. It is wide and of long pitch. It is fastened together with special bolts and can be taken apart by simply taking out a bolt. It is very strong but of light weight.

Attachments K—2 and F—1.

DIMENSIONS AND PRICES.

No.	Width.	Length or Pitch	Working Strain	Price per Foot—Plain.	Price per Foot—Attachment.
085	5 inches	4 inches	2,000 pounds	$ .40	.60
095	5 inches	6 inches	3,000 pounds	.50	.75

PRICE OF SPROCKET WHEELS.

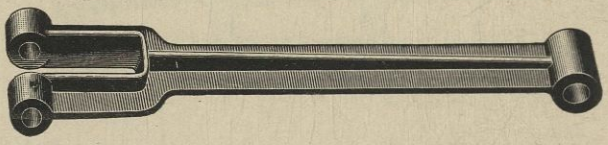
No.	12 inches.	16 inches.	20 inches.	24 inches.	30 inches.	36 inches.	48 inches.
085	$5.00	$6.00	$7.00	$10.00	$15 00	$18 00	$24 00
095	6.00	7.00	8 00	12.00	18.00	20.00	30 00

Special Malleable Chain.

No. 10.

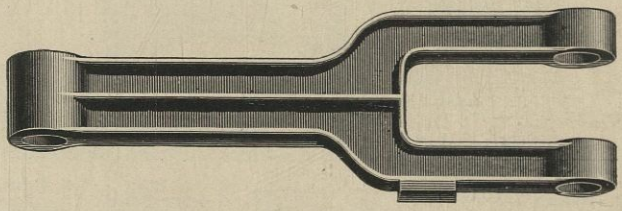
This chain is very light pattern but strong and adapted for medium light work.

No. 50.



No. 50 is specially adapted for conveying coal, coke, sand, gravel, all kinds of merchandise, bales of hay, straw, etc.

No. 100



This is a special heavy chain, called Unbreakable. It is adapted for all kinds of heavy work.

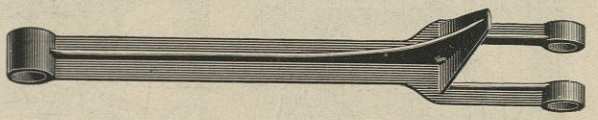
No. 80 chain is similar to No. 100, only lighter. It is adapted for heavy work such as conveying large amounts of coal, coke, pig iron, steel billets and similar material.

DIMENSIONS AND PRICES.

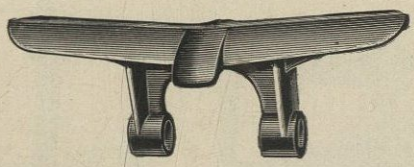
No.	Width.	Length or Pitch.	Working Strain.	Price per Foot —Malleabl .	Price per Foot —Steel.
10	2¼ inches.	24 inches.	2,000 lbs.	$ .25	$ .50
50	4 inches.	24 inches.	10,000 lbs.	.60	.80
80	6 inches.	24 inches.	20,000 lbs.	1.20	1.60
100	8 inches.	24 inches.	60,000 lbs.	2.00	2.60

Add 10 per cent. for K. & F. attachments.

Special F-2. Attachment Link.



No 4 Attachment for No. 50 Chain.



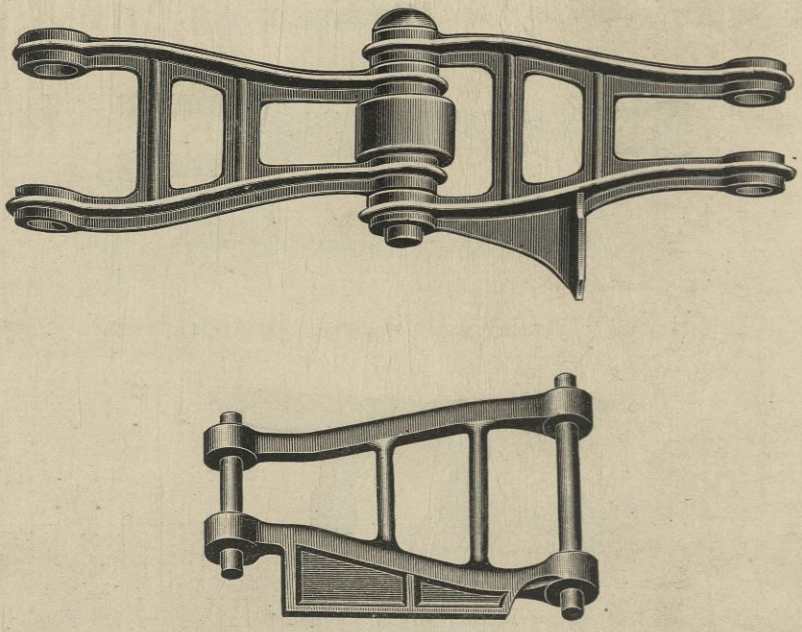
This attachment is used on our special conveyors for conveying large amounts of broken stone. It is made concave and has special steel flights fastened to same. It makes an endless trough. A plow is arranged above this attachment for unloading the broken stone or coal whenever desired.

PRICE LIST OF SPROCKET WHEELS.

No. 10, 48 inches	$ 21.00
No. 50, "	40.00
No. 80, "	80.00
No. 100, "	100.00

Special Malleable Chain.

No. 75.



7 inches Wide. **12 inches Pitch.**

Made of malleable iron or steel designed for very heavy work, such as conveying large quantities of coal, iron ore, stone and similar substances. One of our conveyors made of this kind of chain is conveying over eight hundred tons of coal an hour, and has been running for several years.

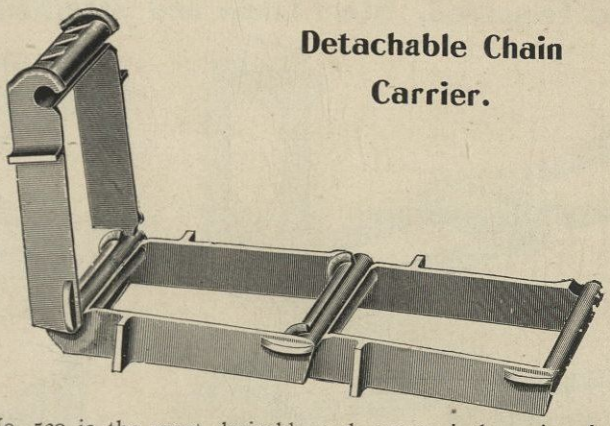
Working Strain 30,000 pounds.

Price per foot—Malleable	$2.50.	Steel	$3 00

Attachments 75–2 and 75–3.

Price of attachments per ft.—Malleable	$3.00	Steel	$ 3.50
Sprocket Wheels, 24 inches			30 00
" " 36 inches			40.00
" " 46 inches			50.00

Detachable Chain Carrier.



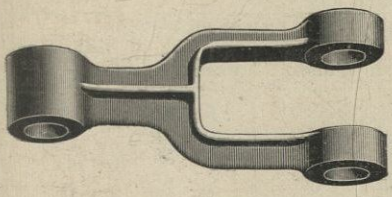
This No. 530 is the most desirable and economical carrier, for its uses, in the market. It is well adapted for horizontal conveyors for handling saw-dust. tan-bark, coal, broken stone, etc. It is very reasonable in price.

The coupling and uncoupling of links and shape is similar to Standard Detachable Chain Belting, Nos. 85 and 95, the most striking difference being the dimensions; the side and end bars to provide carrier, and the lugs on each side to collect matter that escapes from carrier in the trough.

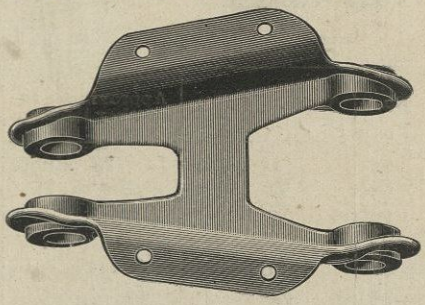
Can express sample links for inspection.

Special Malleable Chain.

No. 20.



No 20 Special, K-2 Attachment.



It is made very strong and heavy and is especially adapted for heavy conveyors and elevators. Large heavy buckets are used with the K-2 attachment.

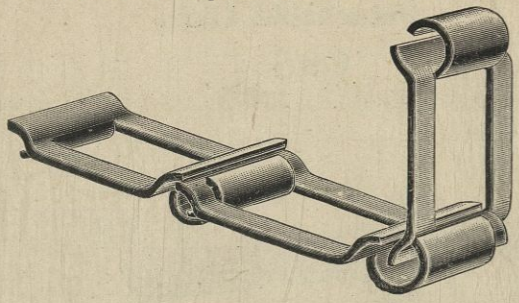
DIMENSIONS AND PRICES.

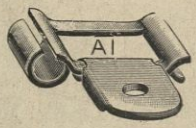
No.	Width.	Length or Pitch.	Working Strain.	Price per foot.	Price per foot Attachments.
530	7 in.	6 in.	2,000 lbs.	$ .50	
20	8 in.	8 in.	10,000 lbs.	1.20	$1.50

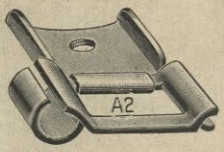
SPROCKET WHEELS.

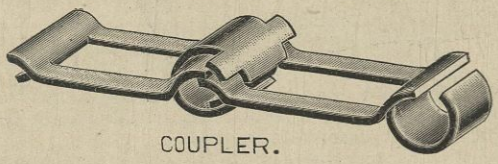
No.	17 inches.	21 inches.	24 inches.	36 inches.	48 inches.
530	$9.75	$12.00	.....	.....	.....
20	....	.....	$24.00	$36 00	$48 00

Locke Tempered, Steel Chain and Attachments.

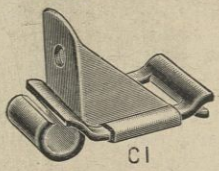




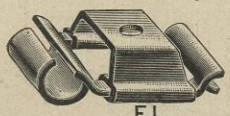




COUPLER.



C1



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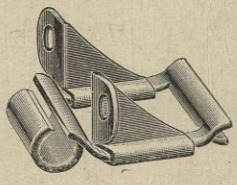
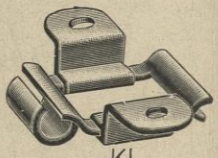




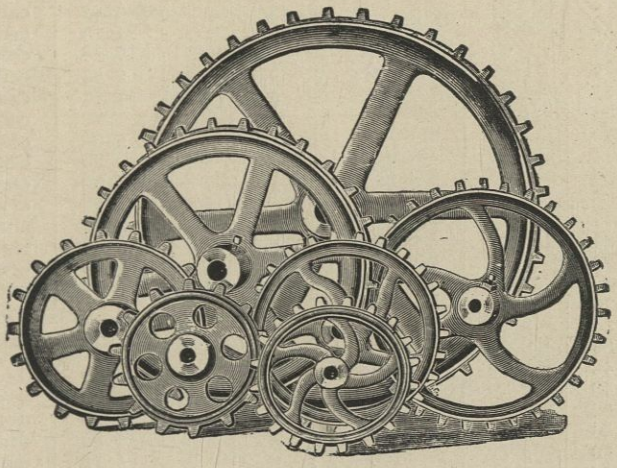
K1

PRICE LIST.

No.	Working Load.	Approximate in Leather Belting.	Links per foot.	PRICE PER FOOT. All Plain Links.	All Attachment Links.	With Attachments at intervals.
25	75 lbs.	1 in. single	13.3	$ 0 10	$ 0 23	$ 0 14
32	150 "	1½ " "	10 4	10	21	14
33	200 "	2 " "	8 6	10	21	14
34	225 "	2½ " "	8.6	10	21	14
35	250 "	2½ " "	7.4	10	21	14
42	300 "	3 " "	8.8	11	22	15
45	350 "	3½ " "	7.4	11	22	15
51	375 "	3½ " "	10.4	14	25	18
52	500 "	4 " "	8.	15	25	18
55	450 "	4 " "	7.4	15	23	17
57	600 "	6 " "	5.2	15	30	20
62	650 "	6½ " "	7.3	20.	34	25
66	700 "	6½ " "	6.	20	34	25
67	700 "	7 " "	5.2	20	34	25
75	750 "	7½ " "	4.6	23	37	28
77	800 "	8 " "	5.2	23	37	28
78	1000 "	10 " "	4.6	26	47	33
83	1200 "	12 " "	3.	31	56	44
85	1300 "	9 in. double	3.	34	56	45
88	1200 "	8 " "	4.6	31	56	44
93	1600 "	10 " "	3.	37	56	47
95	1600 "	10 " "	3.	40	75	57
103	1800 "	12 " "	4.	50	75	62
105	1500 "	10 " "	2.	44	62	53
108	1800 "	12 " "	2 5	50	88	69
110	2000 "	13 " "	2.5	63	1 00	82
114	2000 "	13 " "	3.7	63	80	72
124	2250 "	17 " "	3.	75	1 25	1 00
160	4000 "		1.2	1 00	1 50	1 25

Attachments same as list in general use.

Sprocket Wheels.



FOR REGULAR CHAIN LIST.

All Our Sprocket Wheels Work in Either Direction.

For additional price to be added to list price for split sprockets, square or jaw clutch sprockets, sprockets with extra large hubs or hubs one side only, and for all sprockets bored larger than 4 inches, see page 85.

In some cases several numbers of chain belting run on same wheels, as 35, 45 and 55, or 57, 67 and 77, or 75, 78 and 88.

In ordering give the diameter of wheel and the number of teeth and exact size of bore, and say whether set screws or key way. We charge extra for both set screws and key seat.

We are continually adding to our patterns, and can make any size or shape.

We also make quite a number of sprocket wheels not shown in list.

Price List of Finished Sprocket Wheels.

No. 25.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
2	7	$ 0 80	adopt
2½	8	85	adore
2¾	9	90	admire
3¼	11	1 00	admit
3½	12	1 05	accept
3¾	13	1 10	amuse
4	14	1 10	abrupt
4¼	15	1 15	assail
4¾	16	1 20	apart
5	17	1 25	attend
6	21	1 45	awake
6¼	22	1 50	alive
7½	26	1 70	attest
8	28	1 80	abscond
10	35	2 10	arouse
10¼	36	2 15	army
12	42	2 40	artist
13¾	48	2 70	amend
15	52	2 90	astray
16	56	3 10	apple
17¼	60	3 30	assure
18¼	64	3 50	asleep
24	84	5 00	apron

No. 32.

2	5	$ 0 80	beast
2½	6	85	bear
2¾	7	90	bad
3	8	95	bird
3½	9	1 05	bill
3¾	10	1 10	ball
4¼	11	1 15	burst
4¾	13	1 25	bat
6	16	1 45	boat
8¼	22	1 80	board
8½	23	1 95	book
9	24	2 05	berch
12	33	2 60	beech
14	38	2 90	bond
16	44	3 30	brat
16½	45	3 40	brewers

Nos. 33 and 34.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
3	7	$ 0 95	cat
4	9	1 15	caught
4½	10	1 25	cold
5½	12	1 45	can
6½	15	1 70	camp
7	16	1 80	cart
8½	19	2 00	cast
9¾	22	2 25	cistern
12	27	2 60	cramp
14¼	32	3 05	cry
15¼	34	3 20	chant
16	36	3 40	cloak
18¼	41	3 90	crust
24	54	5 30	crank

Nos. 35, 45, 55.

2½	5	$ 0 90	dart
3	6	1 00	dump
3¾	7	1 10	door
4¼	8	1 25	disk
4¾	9	1 35	damp
5¼	10	1 45	drop
5¾	11	1 55	darn
6	12	1 65	dote
7	13	1 75	dirt
7¼	14	1 85	dean
8½	16	2 05	drink
8¾	17	2 15	dram
9½	18	2 25	damon
10	19	2 35	draft
10½	20	2 45	demand
11½	22	2 70	depend
12	23	2 80	devoid
12½	24	2 90	damper
13	25	3 00	dare
14¼	27	3 30	divorce
16	31	3 70	delude
18¼	35	4 20	dwarf
20¼	39	4 65	drum
21¾	42	5 00	dinner
23½	45	5 40	darling
28	54	7 00	deer
30	58	7 50	dough
36	69	10 50	digit
42	82	14 00	distress

In ordering, be sure and give the diameter and the number of teeth and size of bore, and if they are to be set screwed or key seated.

Price List of Finished Sprocket Wheels.

No. 42.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
3	7	$ 1.10	engine
3¾	9	1 20	erand
4¾	11	1 35	ermine
5¾	13	1 45	easter
6¼	14	1 60	earth
8	18	1 95	evade
8¼	19	2 00	even
9½	22	2 25	educate
10½	24	2 40	err
11¾	27	2 70	easy
14	32	3 20	energy
15½	36	3 50	efface
18	41	4 00	effort
20	46	4 50	enamel
24	55	5 75	ether

No. 51.

1¾	5	$ 0 90	farm
2½	7	1 00	ford
4	11	1 25	flume
5	14	1 40	flower
6¼	17	1 60	flaw
8	22	2 00	frozen
10	27	2 35	frost
12	33	2 75	flow
14	39	3 20	farce
16	45	3 70	flat
18¼	50	4 10	float

No. 52.

3½	7	$ 1 10	gallop
4	8	1 20	graceful
4¼	9	1 30	gaunt
5	10	1 40	grist
5½	12	1 55	grap
6	13	1 65	grind
6½	14	1 75	gore
7	15	1 85	game
7½	16	1 95	glad
8	17	2 05	grove
9	19	2 30	gun

No. 52.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
10	21	$ 2 50	gargle
12½	26	3 00	glow
13	27	3 15	ground
14½	30	3 50	girl
16½	34	4 00	grip
18	38	4 50	gum
20	42	5 00	glory
22	46	5 45	grain
23¾	49	5 80	grass
24½	51	6 15	griffin
26½	55	7 00	greedy
30½	64	8 00	giant

Nos. 57, 67 and 77.

4½	5	$ 1 35	hide
4¾	6	1 45	height
5½	7	1 55	hymen
6	8	1 70	hundred
6¾	9	1 85	home
7½	10	2 00	hungry
8	11	2 15	hasty
8¾	12	2 30	happy
9½	13	2 50	half
11	15	2 85	hope
12½	17	3 25	hurt
14	19	3 65	hustle
14¾	20	3 85	hoary
15½	21	4 05	hump
16½	22	4 25	heart
17	23	4 50	heather
18¼	25	5 00	harp
19¾	27	5 50	hoist
20	28	5 75	happen
22	30	6 25	hi
24¼	33	7 00	henry
26	36	7 75	hearken
28	38	8 25	herald
30	41	9 00	hound
32½	44	9 75	hysen
36	49	12 00	hard
38½	52	13 50	hempen
41½	56	15 50	hist
44½	60	17 00	hartle
47½	64	21 00	hurdle

In ordering, be sure and give the diameter and the number of teeth and size of bore, and if they are to be set screwed or key seated.

Price List of Finished Sprocket Wheels.

No. 62.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
4¼	8	$ 1 40	ipse
5	9	1 50	idle
5¾	11	1 70	imp
7¼	14	2 00	inland
8	15	2 10	inquest
8¼	16	2 20	import
9¼	18	2 45	imagine
10½	20	2 75	invoice
11½	22	3 05	inquire
12	23	3 20	ignore
14¾	28	3 95	increase
16	30	4 25	implore
18	34	4 85	incense
20	38	5 45	instill
23	43	6 20	idea
24	45	6 50	ides
26	49	7 50	ignite
30½	58	9 00	image

No. 66.

7½	12	$ 2 00	jolly
8½	13	2 25	jewel
10¼	16	2 60	juice
12½	19	3 10	jabber
16¼	25	4 25	jack

No. 75, 78, 88.

5	6	$ 1 65	lily
6	7	1 80	lace
6½	8	2 00	lamp
7½	9	2 20	leather
8¼	10	2 40	lacing
9	11	2 60	laddy
10	12	2 80	lazy
10¾	13	3 00	licorice
11½	14	3 20	landlord
12½	15	3 40	lester
14¼	17	3 90	lastly
16	19	4 40	lattice
16½	20	4 65	linen
18½	22	5 15	limestone

No. 75, 78, 88

Pitch Diam. Inst	No. of Teeth.	Price.	Tel. Code.
20	24	$ 5 65	liquid
21	25	5 90	legal
22½	27	6 40	latches
24	29	6 90	lavender
24¾	30	7 15	lasso
26¾	32	7 60	large
28½	34	8 55	lariats
29½	35	8 90	linseed
30½	37	10 00	lozenge
32½	39	10 90	license
33½	40	11 40	laurel
37	44	12 80	laundry
38	46	14 00	layman
42	49	16 50	lobe
48	58	22 50	lake
64	77	33 50	leggins

No. 83—Double Teeth

12	18	$ 3 50	master
16	26	4 50	marble
20	32	6 00	maize
24	38	6 50	merry
28½	44	8 50	mournful
30	48	10 00	misty
34	54	12 00	marine
41	64	18 00	music

No. 85 and 95.

7¾	6	$ 2 60	nabob
10	8	3 25	narcotic
12½	10	4 00	narrow
13½	11	4 30	nether
16	13	5 35	nameless
17½	14	5 70	notary
20	16	6 90	novice
22½	18	8 10	necklace
24	19	8 70	necktie
30	24	11 75	nitrate
31	25	12 00	new
33	26	13 50	nitrogen
34	27	14 50	northland
35½	28	15 50	nuisance
60	47	36 00	nubian

In ordering, be sure and give the diameter and the number of teeth and size of bore, if they are to be set screwed or key seated.

Price List of Finished Sprocket Wheels.

No. 103.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
7	7	$ 2 60	orations
7¾	8	2 80	oracle
8¾	9	3 00	ostrich
9¾	10	3 25	opus
11¾	12	3 85	omen
12½	13	4 20	onslaught
13½	14	4 55	omlet
14½	15	4 90	orange
15½	16	5 25	osage
16½	17	5 60	osier
18	19	6 30	orang
19½	20	6 65	outing
21½	22	7 35	omnes
22½	23	7 70	orbit
23½	24	8 00	olive
25½	26	9 00	oster
30	31	11 50	origin
32	33	12 50	ochre
37	38	15 25	oblong
41	42	17 50	oyster
45	46	21 00	opera
48	49	23 50	octave
66	68	50 00	oral
72	73	60 00	oats

No. 105 and 107.

11¾	6	$ 4 50	pastel
15¾	8	4 90	party
19½	10	6 25	prohibit
23	12	7 75	protect
25¼	13	9 75	parcel
27½	14	10 75	pardon
31	16	13 00	postal
36¾	19	16 00	piano
48½	25	25 00	preacher

No. 108.

12	8	$ 4 50	republic
13½	9	5 00	raiment
16½	11	6 00	ripple
18	12	6 50	reason
20	14	7 50	rampage

No. 108.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
24	16	$ 9 00	reams
30	20	12 50	rulers
36	24	15 50	royal
48	32	25 00	robes

No. 114.

8	8	$ 3 60	story
10	10	4 40	steamship
13¼	13	5 60	salad
14¼	14	6 00	slippers
16½	16	6 80	slingshot
19½	19	9 00	sword
24	23	11 50	sulphur
24½	24	12 00	surgeon
31	30	15 00	sea
33	32	17 00	spiral
36	35	20 00	sorghum
48½	47	30 00	saucers

No. 122.

17½	9	$ 9 00	triumph
19	10	10 00	torpedo
23	12	12 50	tablets
29½	15	17 00	tinsel
42½	22	25 00	tickets

No. 124.

11½	9	$ 4 75	unicorn
12½	10	5 10	unity
14½	11	5 60	universe
15¼	12	6 25	ulster
16½	13	7 00	upstart
18¾	15	9 00	unveil
21½	17	11 00	ultimate
24	19	13 00	upright
26	20	14 00	utensil
31	24	16 50	umpire

In ordering, be sure and give the diameter and the number of teeth and size of bore, and if they are to be set screwed or key seated.

Price List of Finished Sprocket Wheels.

No. 124.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel. Code.
36	28	$20 00	uneasy
44	34	26 00	umbrella
48	38	35 00	utopian
62	48	50 00	upsetters

No. 146.

16	8	$14 00	velvet
18	9	15 00	vellum
20	10	16 00	violet
36	18	40 00	vacuum

No. 160.

Pitch Diam. Ins.	No. of Teeth.	Price.	Tel Code.
30	9	$35 00	wallet
40	12	45 00	weather
48	15	55 00	wealth

Telegraph Code.

Ship by freight, -	ajax
Ship by express, -	juno
Ship by boat, - -	neptune
When will you ship our order, - - -	mars
Send tracer after our order, - - -	mercury

Telegraph Code.

Exact Size of Shaft in Inches.

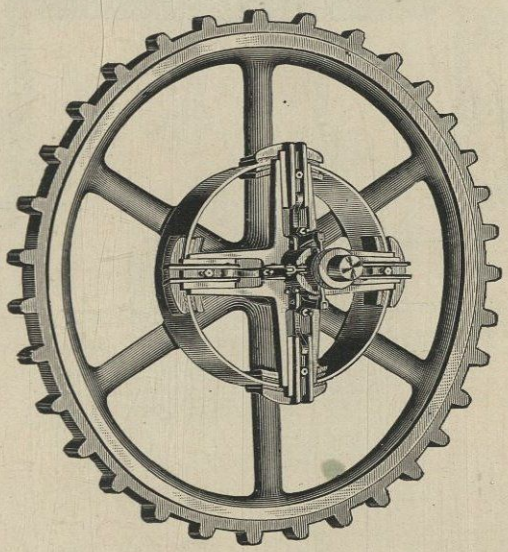
15-16	sacerdotal
1	sachem
1 1-8	saddle
1 3-16	saffron
1 1-4	sagamore
1 5-16	salmon
1 3-8	sampler
1 7-16	sandal
1 1-2	sapphire
1 9-16	sardonyx
1 5-8	sassafras
1 11-16	satan
1 3-4	satyr
1 13-16	scapula
1 7-8	schooner
1 15-16	scorpion
2	scythe
2 1-8	sediment
2 3-16	semicolon
2 1-4	seneschal
2 15-15	sepoy
2 3-8	serenade
2 7-16	shamrock
2 1-2	shekel
2 9-16	shepherd
2 5-8	shrimp
2 11-16	sibyl
2 3-4	silica
2 13-16	siphon
2 7-8	sleigh
2 15-16	slumber
3	smoke
3 1-8	snarl
3 3-16	sobriquet
3 1-4	soldier
3 5-16	solstice
3 3-8	somerset
3 7-16	sonata
3 1-2	sophomore
3 9-16	soprano
3 5-8	sorcerer
3 11-16	sorrel
3 3-4	souchong
3 13-16	souvenir
3 7-8	spade
3 15-16	specimen
4	sphinx
4 1-8	spinach
4 3-16	splinter
4 1-4	sportsman
4 5-16	spruce
4 3-8	spunk
4 7-16	squash
4 1-2	sttalactite
4 9-16	stampede
4 5-8	starboard
4 11-16	stencil
4 3-4	stevedore
4 13-16	stiletto
4 7-8	stratagem
4 15-16	subpoena
5	symphony

Split Sprocket Wheels.

For split sprocket wheels add to the foregoing list the following prices:

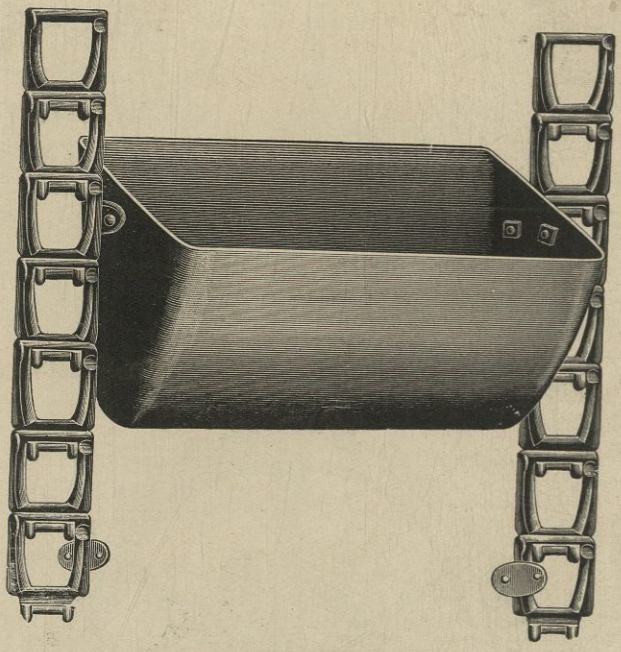
Diameter.	No. of Link Belt.	Price.	Diameter.	No. of Link Belt.	Price.
6 to 12	25 to 52	$1 70	24¼ to 36	32 to 52	$2 90
	57 to 77	1 85		57 to 77	3 20
	78 to 95	2 00		78 to 95	3 60
	103 to 160	2 20		103 to 160	4 00
12¼ to 24	25 to 52	2 35	36¼ to 60	57 to 77	4 60
	57 to 77	2 50		78 to 95	6 00
	78 to 95	2 65		103 to 160	7 80
	103 to 106	2 80	Above 60	78 to 160	12 00

Sprocket Wheels with Friction Clutch.



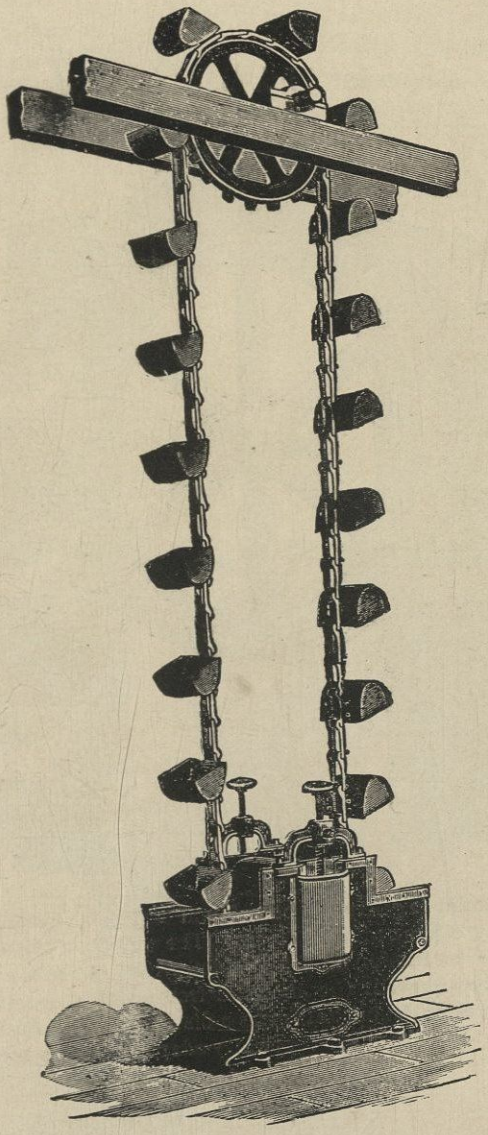
We supply our sprocket wheels fitted with friction clutches, and shall be pleased to name prices upon application.

Double Strand Chain Elevator.



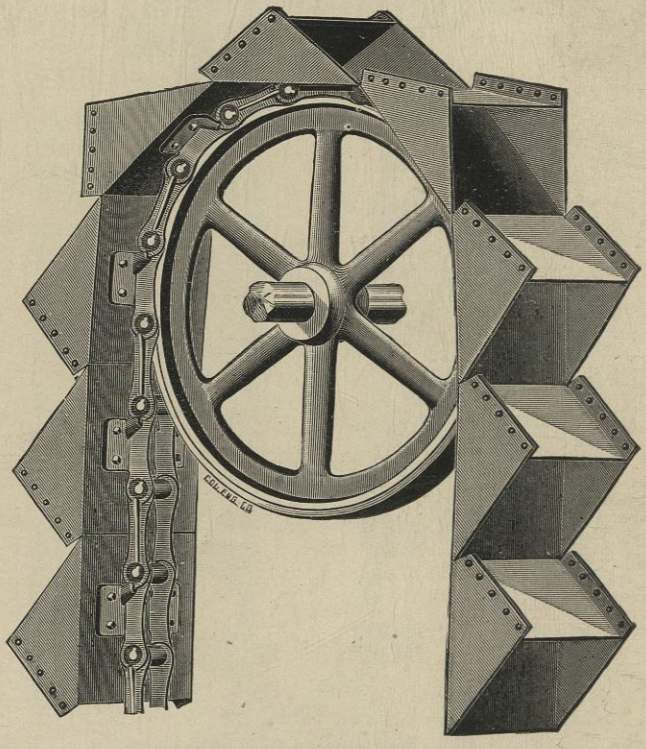
Double Strand Chain Elevator showing application of Detachable Chain with "G" Attachment Links, right and left, and Malleable or Steel Buckets centrally hung.

Single Strand Chain Elevator.



Illustrating the use of Detachable Chain with "K" Attachments, Sprocket Wheels, Malleable Buckets, Boot with Take-ups, Shafts and Boxes.

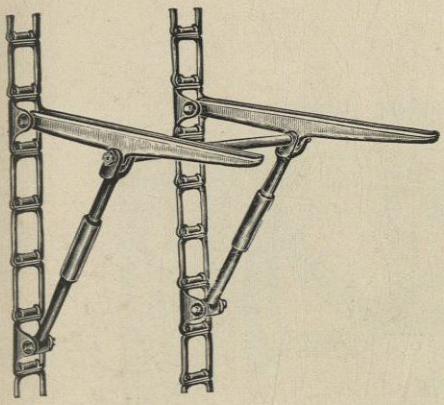
Special Link-Belt Elevator.



Where the material is gritty we have found the type of elevator shown above more durable than any of the ordinary forms. The weight of the chain and buckets is sufficient to produce the friction on the traction wheel necessary to raise the load. The continuous buckets prevent the material from getting into the chain and the trough shape of the front of the bucket forms a discharge spout for the material.

Our No. 085 and 095 chains are especially adapted for this kind of elevator.

Price on Application.



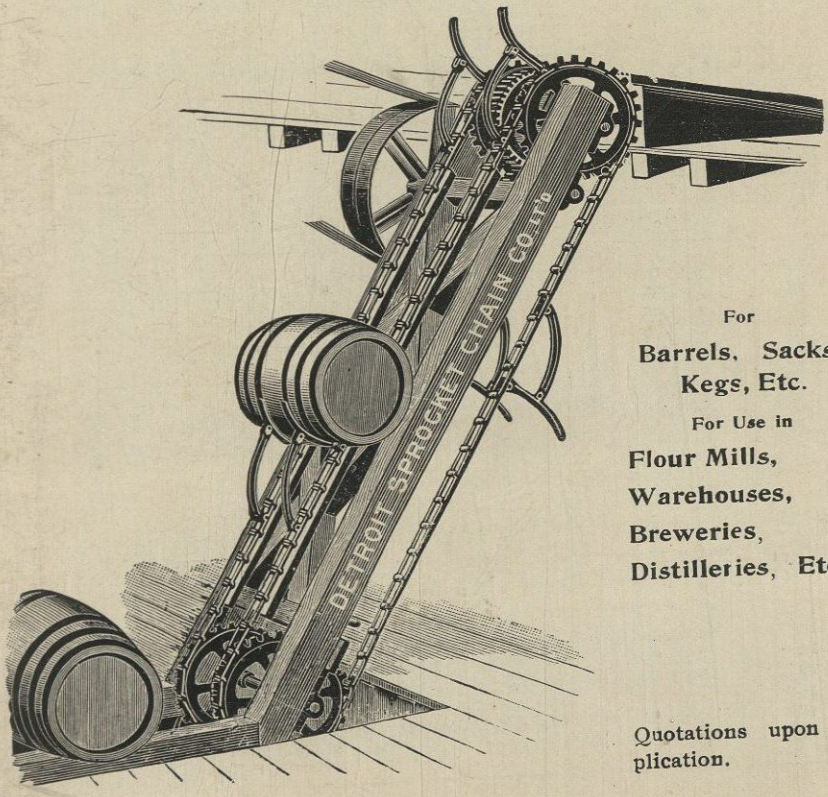
Straight Elevator Arms.

Each se comple e as follows:

2 Arms .....
2 Sockets .....
1 Cross Bar and Nuts .....
4 Links M [3], 78 or 83 with Pins and Cottters .....

$7.50 per Set.

Arm Elevator.



For

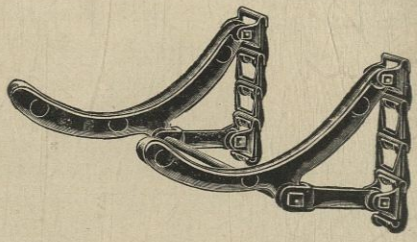
Barrels, Sacks, Kegs, Etc.

For Use in

Flour Mills, Warehouses, Breweries, Distilleries, Etc.

Quotations upon application.

Curved Elevator Arms.



Used as shown on opposite page in our Incline Barrel Elevator. The curved and straight arms are also used when the position of Elevator is vertical.

Barrel and Sack Elevator.

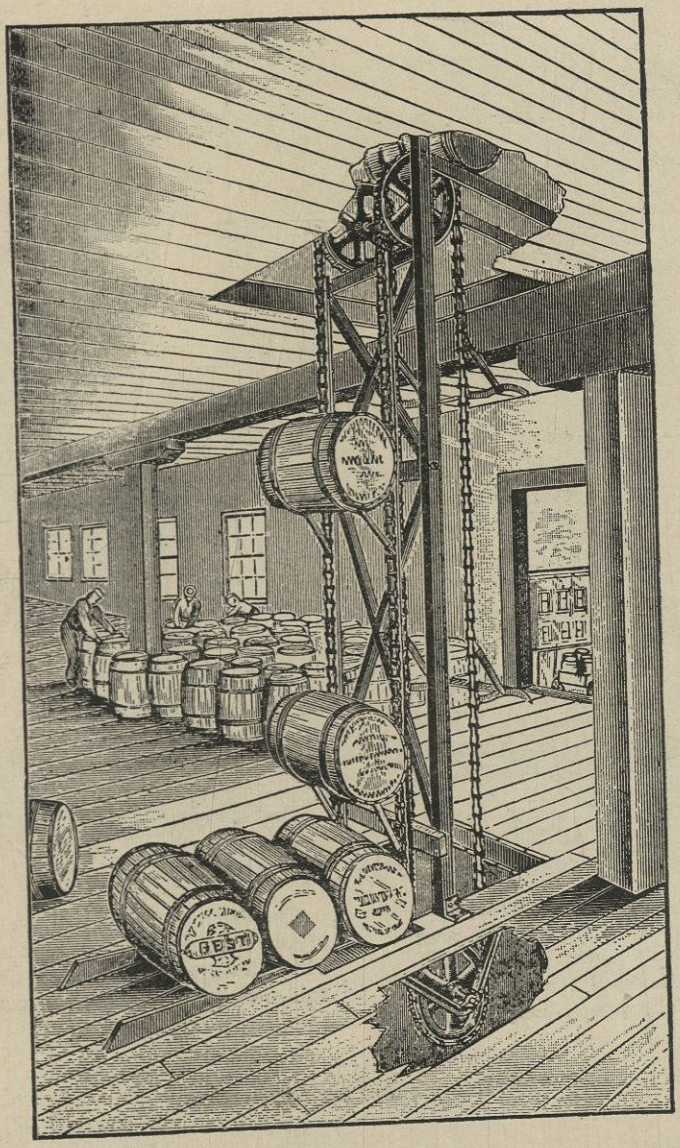
FOR SACKS ONLY.

Height Between Centers of Shafts.	Number of Carrying Arms.				Cost of Wood Work.	Extra Arms.
	3 Arms.	4 Arms.	5 Arms.	6 Arms.		
10′	$98 00	$102 00	$106 00	.....	$24 00	$4 00
15	108 25	112 25	116 25	$120 25	31 00	4 00
20	118 50	122 50	126 50	130 50	36 00	4 00
25	128 75	132 75	136 75	140 75	42 00	4 00

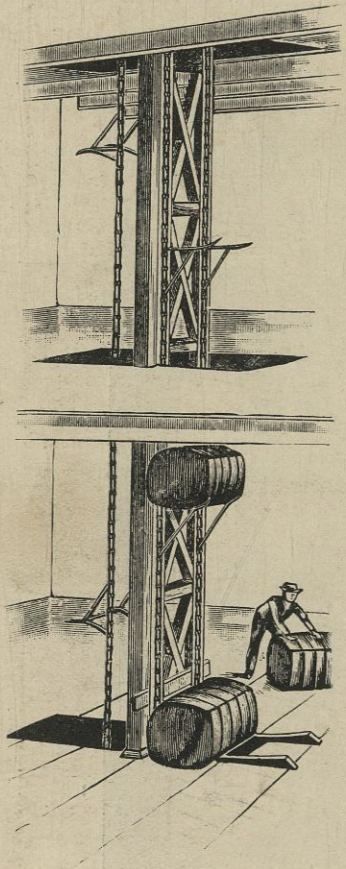
Speed—52 Revolutions per Minute.

FOR BARRELS.

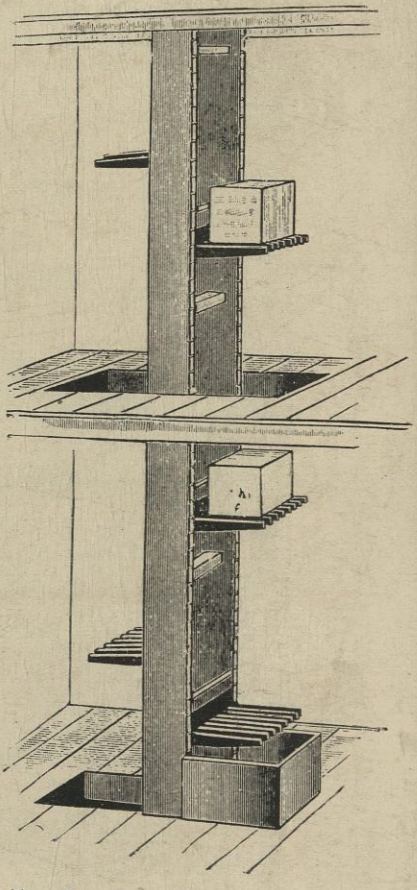
Height Between Centers of Shafts.	Number of Carrying Arms.				Cost of Wood Work.	Extra. Arms
	3 Arms.	4 Arms.	5 Arms.	6 Arms		
10′	$129 00	$136 00	$140 00	.....	$24 00	$5 40
12	135 00	144 00	148 00	$155 00	26 00	5 40
14	144 00	150 00	156 00	161 70	30 00	5 40
16	152 00	158 00	153 00	170 00	32 00	5 40
18	160 00	165 00	171 00	177 00	35 00	5 40
20	168 00	172 00	178 00	184 00	37 00	5 40



In some places, on account of space, this form of elevator is desired. Prices given upon application.

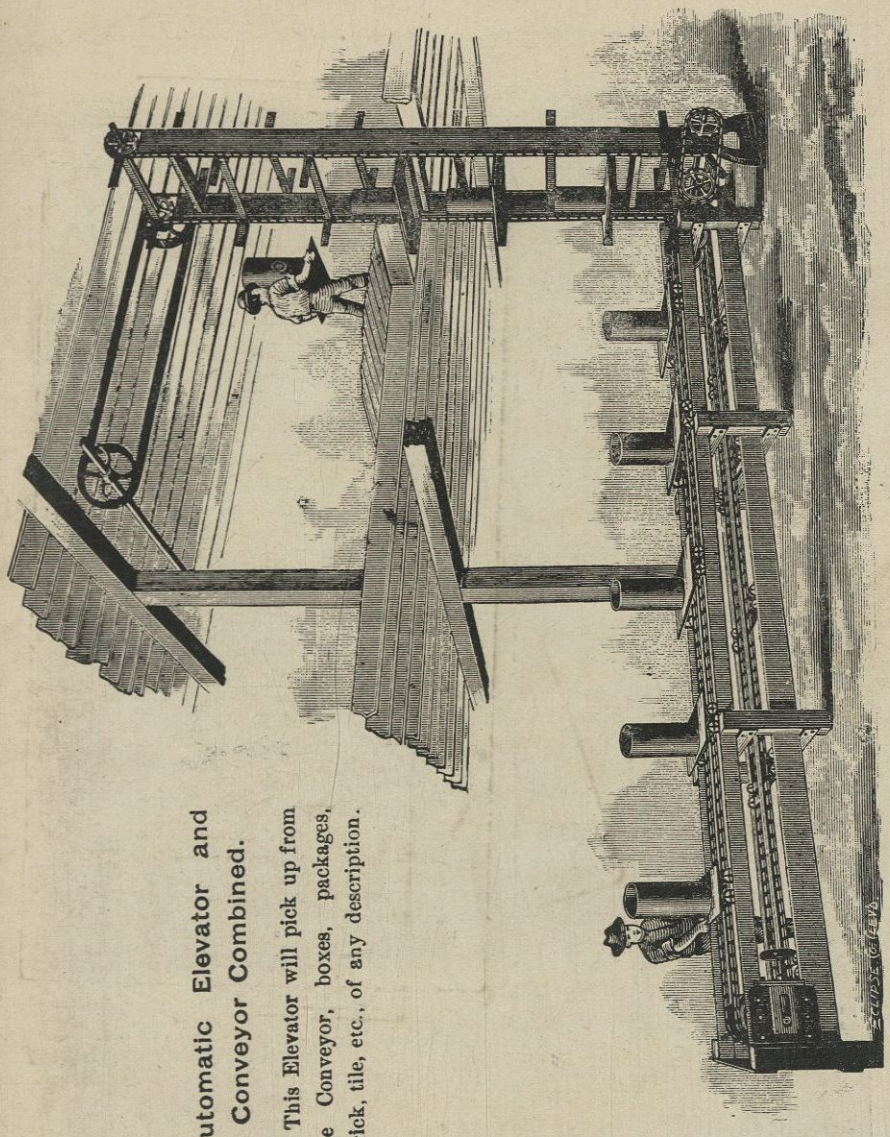


This cut shows how our Special Chain is used for elevating heavy bales. It is a great labor saver, as it can be used for many purposes, and the price is very reasonable.



The above cut shows how our Special Chain is used in elevating heavy boxes. This elevator requires very little space, and saves much labor, and can be used for many purposes.

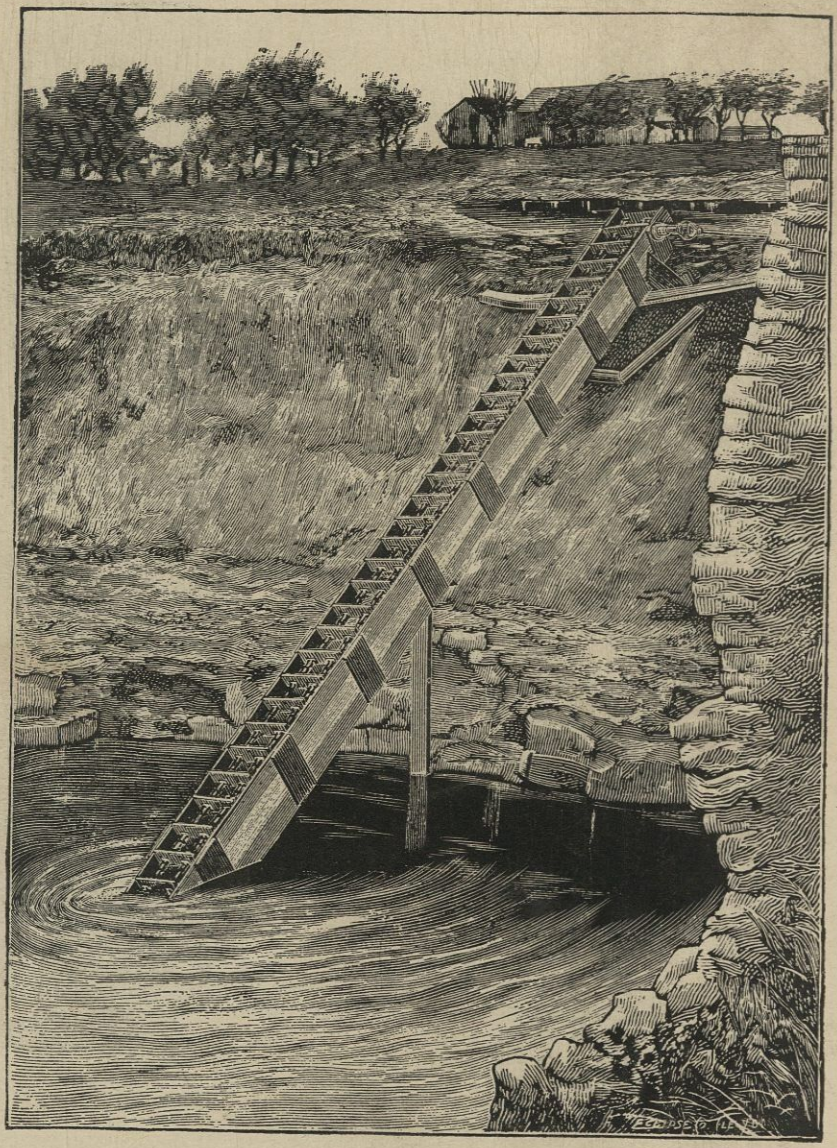
Prices Named on Application.



Automatic Elevator and Conveyor Combined.

This Elevator will pick up from the Conveyor, boxes, packages, brick, tile, etc., of any description.

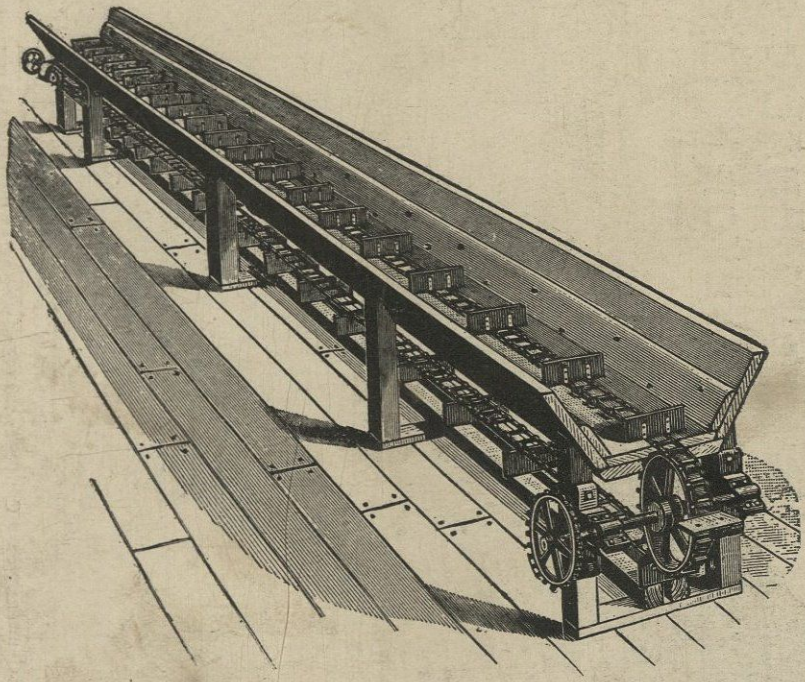
There are thousands of places where an outfit of this kind would pay for itself in less than a month. Prices upon application.



Water Elevator for quarries, mines and for irrigating purposes. Can be worked by steam, horse or hand power. Has very large capacity and is reasonable in price.

Prices Given on Application.

Ear Corn Conveyor.

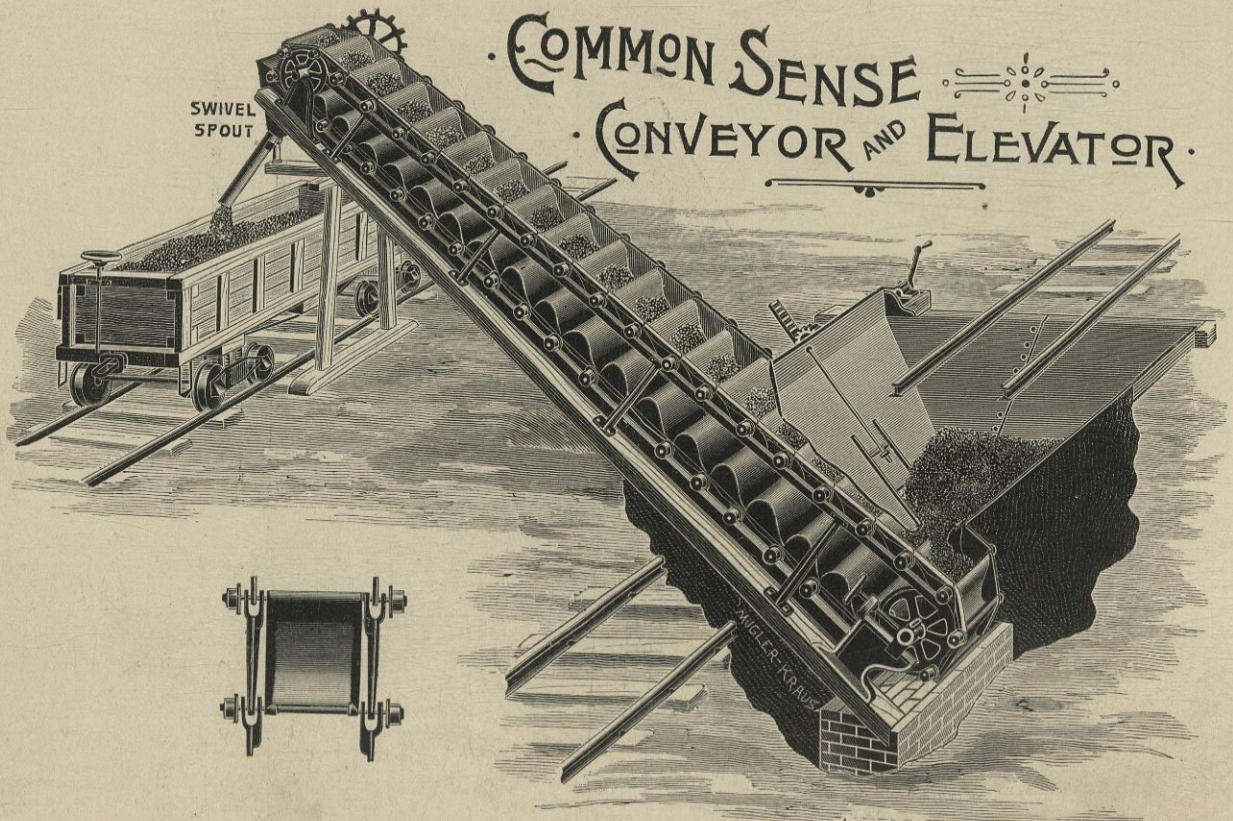


We furnish these Chain Conveyors with either wood or iron flights. We recommend our No. 095 chain (page 84) for this style of Conveyor.

Will make prices including take-up boxes and sprocket wheels, or simply the chain, or chain with flights attached.

Prices Named on Application.

COMMON SENSE CONVEYOR AND ELEVATOR



The above cut shows our Special Common Sente Conveyor for conveying large quantities of ore. Full description on the following page.

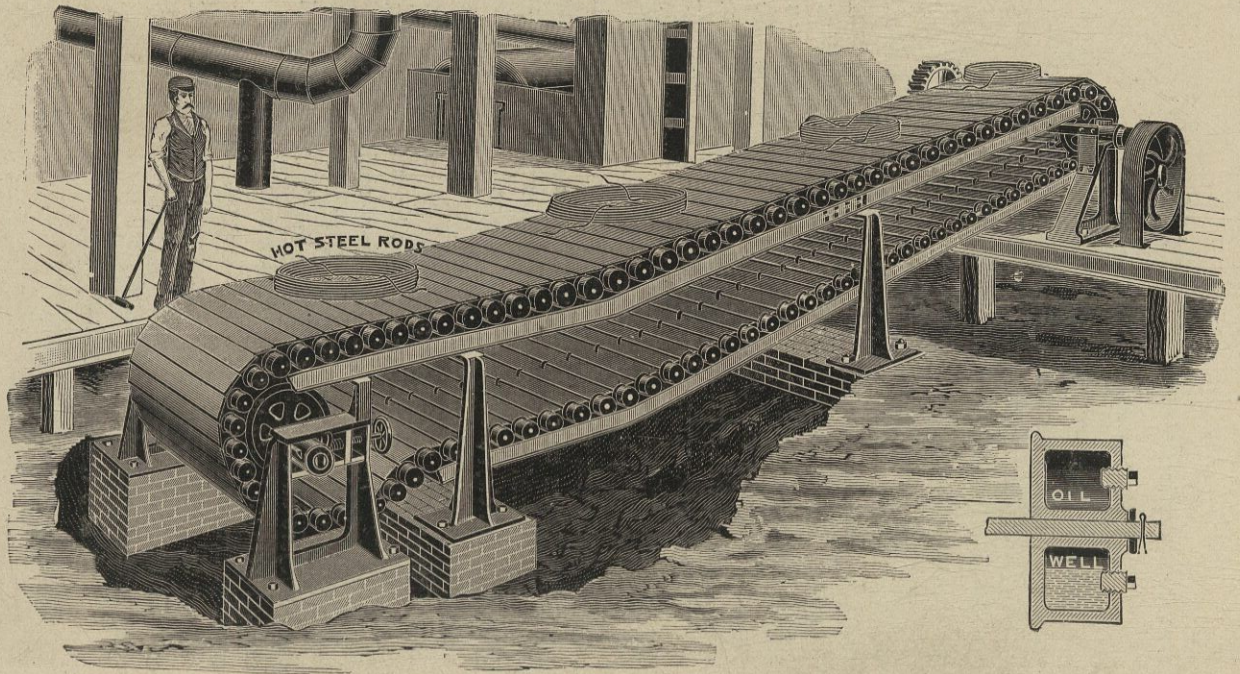
Triumph Common Sense Conveyor and Elevator.

(Patented.)

The cut on opposite page shows our Triumph Common Sense Conveyor and Elevator, used for conveying all kinds of material, including hot ore, molten slag and similar material. The cut represents our conveyor as it is used in conveying hot ore. The hot ore is drawn from the ovens and dumped into the hopper just over the conveyor, about a ton at a time. The conveyor carries it up at an angle of about 35 degrees and discharges it into a swivel discharge spout, distributing it into cars about 40 tons an hour. We build them with a capacity of 500 tons an hour. We also build them to run on a level some distance, then up an incline. We have one of this type in operation for the Diamond Portland Cement Co., for conveying clinker. The conveyor first runs horizontally a distance of 150 feet, then up an incline of 50 feet, the clinker being fed into the conveyor at different places. We also have them for conveying stone, with a special device for unloading at any place along the conveyor. This style of conveyor is especially adapted for conveying broken rock, ores, coal, cinders, and all similar materials. The buckets overlap each other in such a way that there is absolutely no leakage.

Too much cannot be said about our special Common Sense Conveyor. It has no equal for durability. It has no equal for cheapness in repairs. It can be used for conveying molten material or it can be used for conveying very coarse gravel, coal, sand, and all kinds of clay, peat, infusorial earth, etc. The buckets can be made of any size desired. We have them more that 4 feet long. The buckets can be made of cast iron which is greatly preferred in handling tankage after having been treated with sulphuric acid, or they can be made of malleable iron or steel with malleable ends. The chain can be made of malleable iron, cast steel or wrought steel according to the work required. Very little power is used to drive one of these conveyors on account of the slow speed. A 5-inch belt is driving one of these conveyors on which is conveyed hundreds of tons of iron a day. We have a very large number of blue prints, drawings, etc. showing how this style of conveyor is used for many different purposes and shall be very glad to quote any one prices. Feel sure that we can fit up this conveyor to suit the requirements of most any kind of material to be handled.

Prices on Application.



This cut shows the conveyor as it is now used at the Cleveland Rolling Mill Co's. works, of this city, for conveying red-hot steel rods, and is operated as follows:

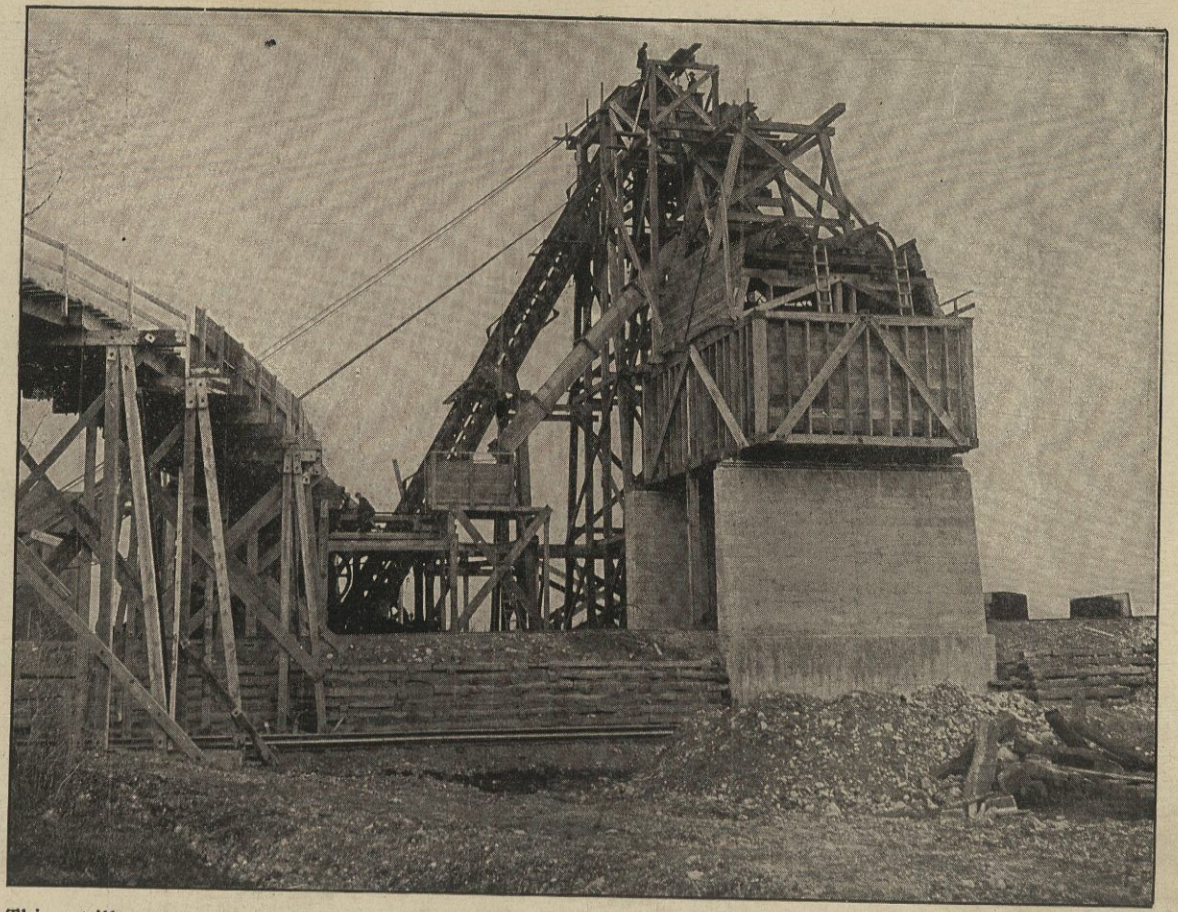
The iron is reeled, then automatically pushed into the conveyor and conveyed on a level for about thirty feet, then up an angle of fifteen degrees for about fifty feet. It is not an easy matter to convey red-hot rods on account of the ends catching, but these objections are entirely overcome.

The Conveyor is run at a very slow speed, and will last for years. A five inch belt will drive it. It is especially adapted for loading and unloading cars and steamboats and can be made of any size required. It is fully guaranteed to give satisfaction. Our special chain is used in this conveyor. Prices and estimates on application.

Special Elevating and Grading Outfit For Crushed Stone.

Prices on Application

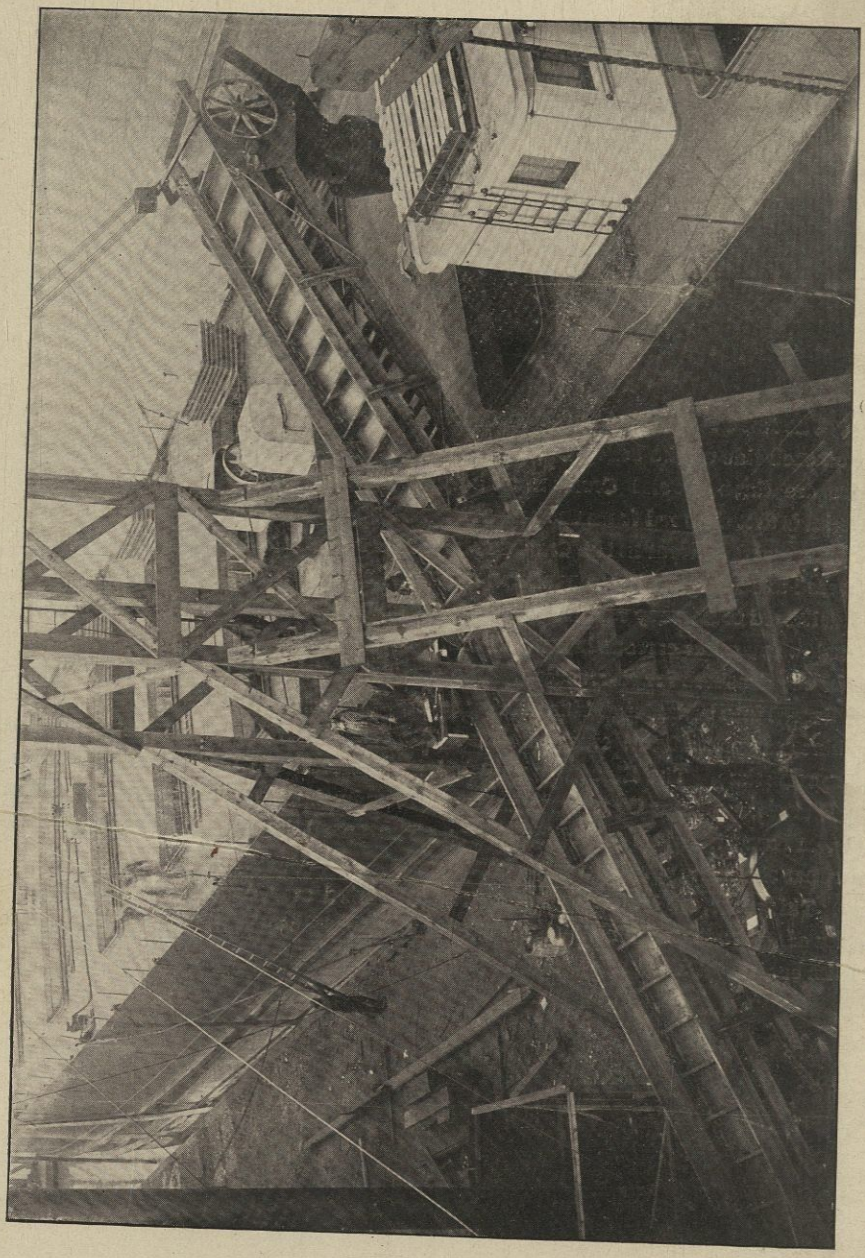
The stone is first crushed and spouted direct to the elevator, and elevated and fed into a special heavy cast iron spout, fastened to the head of the grading reel. The grading reel is 36 inches diameter and 16 feet long, covered with special heavy perforated steel. We generally make three grades, each grade dropping into a bin large enough to hold several tons. The coarse pieces pass over the end of the reel. The receiving bins are high enough to allow the teams to be driven under for loading. Everything is made very strong and substantial, in order to stand the work it is intended to do.



This cut illustrates one of our large size Common-Sense Elevators, which was installed for the Duerr Contracting Co., at their works, North Leroy, N. Y., and has a capacity of 440 tons per hour.

The stone is quarried and brought to the Crushers in tram cars on two tracks, one on each side of the heavy Crushers, so that they may be fed from both sides. There are three special Crushers with openings 72″ x 24″ in each Crusher. The material is first dumped from the cars as they come from the quarries into large hopper bins, and fed direct to the Crushers. From the Crushers the crushed product is delivered to an Incline Elevator shown in center, and elevated eighty-three feet high, and delivered to a heavy revolving screen. The product from this first screen is delivered to two other screens below, the tailings being returned by a belt conveyor to one of the Crushers for re-crushing. The product passing from the second screen is delivered into three large bins holding several car loads of crushed stone. Under the bins are two railroad tracks so that two railroad trains of cars can be loaded at the same time. The Elevator and Revolving Screens are driven by a rope drive. The Elevator is of our Common Sense type. The buckets are 4 feet long by 2 feet wide, and are carried on self-oiling rollers. The speed is slow causing very little wear, but the conveyor has a large capacity.

This plant, we believe is the largest of the kind ever constructed, having a capacity of 440 tons per hour. The boiler capacity is 650 horse-power, with a 250 Corliss engine. Full description and prices on application.



Special Coal Carrier for loading 500 tons of lump coal an hour. Description on following page.

The cut on opposite page illustrates one of our special Carriers for loading coal (either hard or soft coal) on vessels now in use at the ore docks of M. A. Hanna & Co., Ashtabula, Ohio. It is operated as follows:

The coal to be loaded on the boat is first loaded on hopper bottom railroad cars and drawn on the trestle shown on the right-hand side of the illustration. The coal is dumped into a large iron hopper underneath the car, and over the lower end of the carrier, the coal being fed on to the carrier by means of a large slide, or opening three feet square, opened and closed by power. The coal is then conveyed up this continuous carrier and delivered into the spout which feeds the coal into the boat from the carrier. This spout is so arranged that it may be swung in any direction, thus doing away with the necessity of trimming the boat by hand, the coal being delivered at any point required.

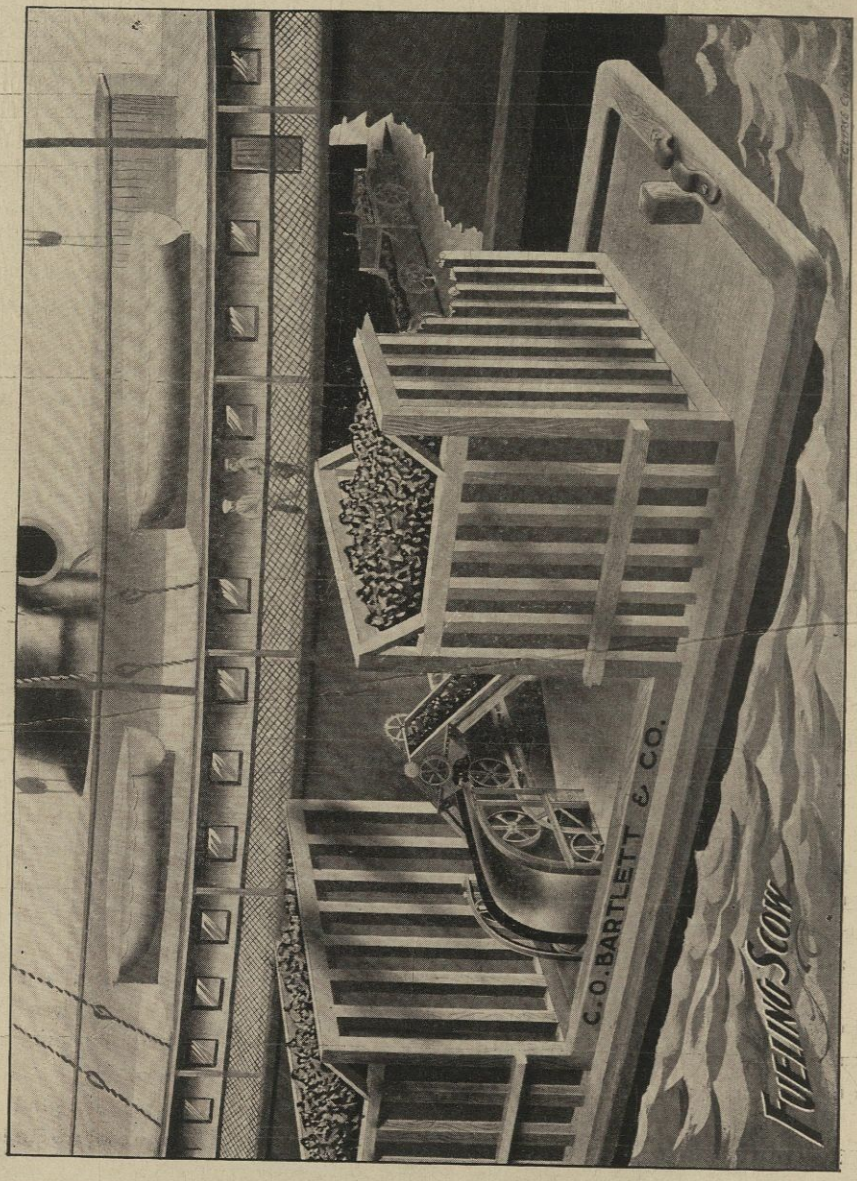
The upper end of the carrier is supported by a tower and is hung on a hinge so that the upper end can be raised or lowered as desired, i. e. when it is desired to move the boat along, the upper end of the carrier can be hoisted high enough to be out of the way of the vessel and quickly lowered again. It can be raised to an upright position by the cable, if so desired, and be entirely out of the way of any moving vessels. The spout for spouting the coal into the vessels from the carrier is made to telescope, so that as the boat is filled with coal, the spout itself may be kept constantly full of coal, thus bringing to a minimum the breakage of the coal. The raising and lowering of the outer end of the carrier is an important feature of this loader as by this means it can be accommodated to any boat, while the breakage is a minimum as the coal falls but a short distance. The whole carrier and mechanism pertaining thereto is operated by a 9 x 12 inch plain slide valve engine, or, in other words, it takes less than 25 h. p. to operate this entire coal loading machinery. Everything is necessarily made strong and substantial.

One of the principal objects of this coaling device was to use very little labor. It requires the following to operate it: One engineer who takes entire charge of machinery, including the running of the engine; One man to see that it is properly fed, and one man to operate the swinging or delivery spout at the delivery end of the carrier.

The conveyor was sold under a guarantee to load 600 tons an hour, but has loaded as much as 900 tons per hour. The actual cost of the entire outfit was less than one-tenth of other loading devices now used at Ashtabula, and the power required to run it is about one-fifth of what is required to run the others.

In view of the low initial cost of this plant, its economical operation and its efficiency it should receive the very careful consideration of all large coal operators.

We make all kinds of conveying machinery. Prices an application.

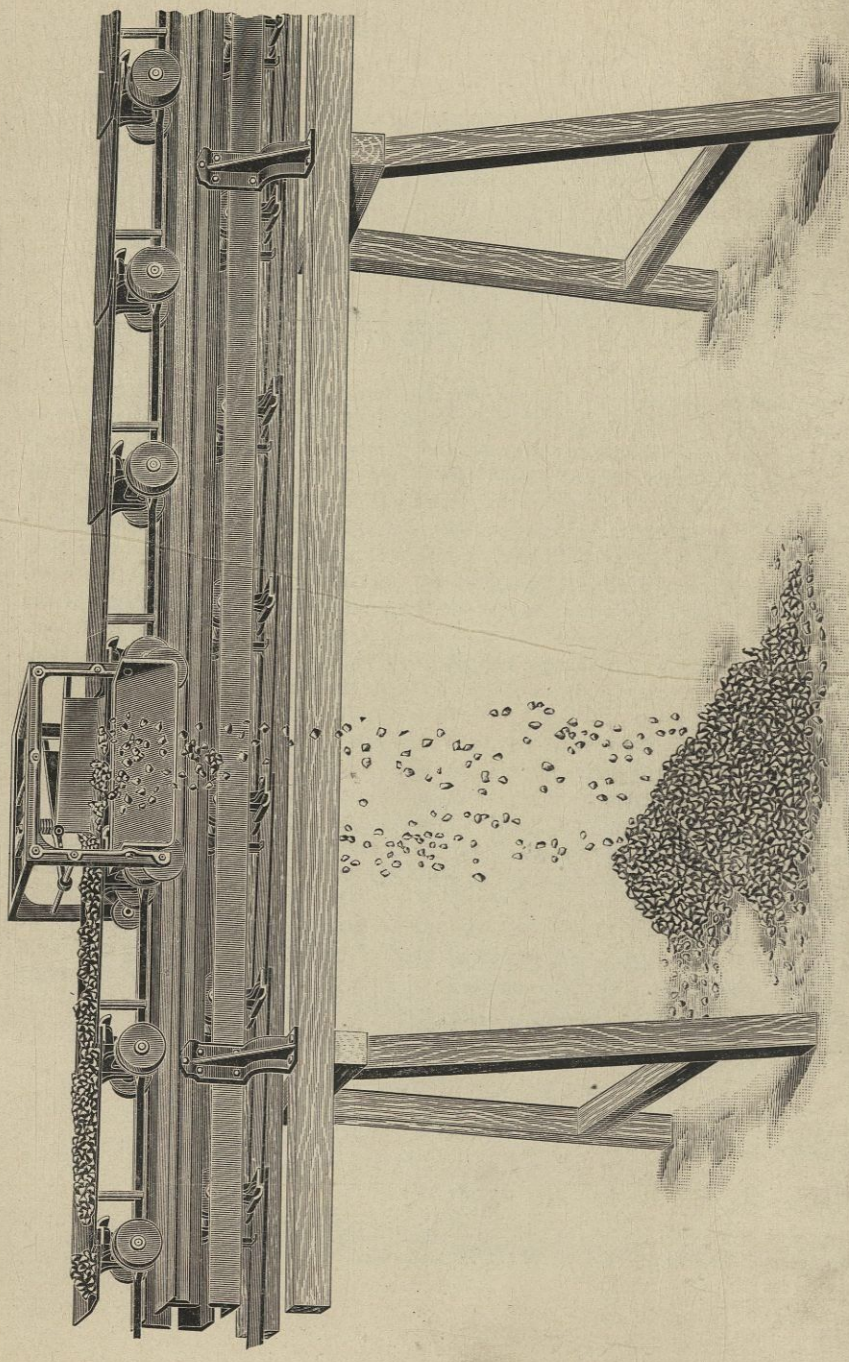


Description on the following page.

Fueling Scow.

The cut on opposite page shows our fueling scow, used for fueling vessels. The arrangement of this machine is as follows: Near each end of the scow is located two large bins for holding the coal, and from each of these bins is an elevator which carries up and delivers into a belt conveyor which is in the center of the scow. This elevator is so arranged that it may be driven in either direction, thus carrying coal from either bin, as may be desired. The belt conveyor which delivers the coal from the scow into the different hatches of the boat is so arranged that it is all carried in the scow when not in operation. When it is desired to fuel the boat, the scow is made fast to said boat and by mechanical devices the delivery end of the belt conveyor is raised or lowered until it is on a level with the deck of the boat. From the end of this are projecting two shoes, which go into the deck of the boat. The belt conveyor is made with an engine located on the delivery end, so that it is used not only for driving the belt conveyor when it is carrying coal, but it is also used for running the belt conveyor out onto the deck of the boat, (same as a traction engine) and returning the conveyor back onto the scow again. This conveyor is so arranged that it does not matter what distance it is run out onto the deck of the boat. The belt will always remain tight, and can be used in any position. After the boat has been fueled, by reversing the engine it backs the conveyor back onto the fueling scow and in position to be transported to some other boat. On the rear of the scow is located the boiler, with necessary engines for propelling same. There is also an engine for operating the elevators from the bins. Both elevators and conveyors are large enough so that they will handle any kind of coal, even large lump coal as it comes from the mine. The cut shows this fueling scow fueling the passenger steamer "City of Buffalo," which runs between Cleveland and Buffalo.

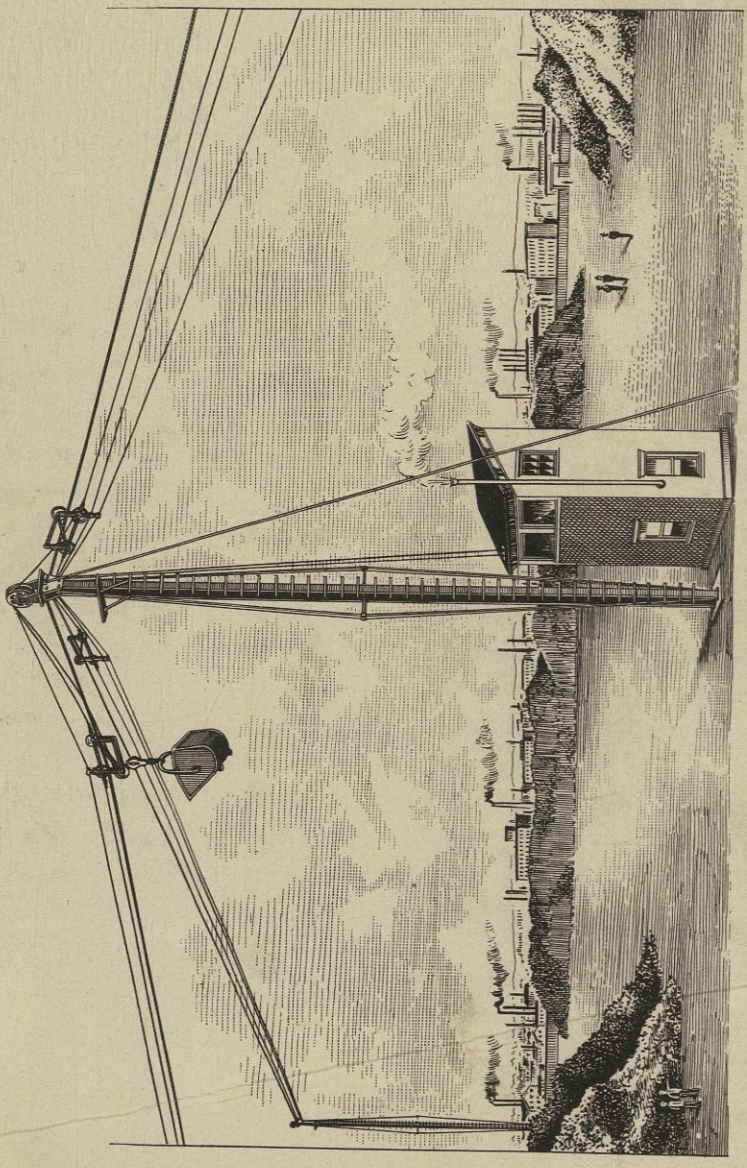
PRICES ON APPLICATION.



Special Metal Conveyor for conveying crushed stone and similar material. See description on page following.

The cut on the opposite page shows our special metal conveyor for conveying large quantities of crushed stone or similar material as it is now used at the works of the Kelly Island Lime & Transport Co., Marblehead, O. It consists of the following: One single strand of special malleable iron chain, using No. 4 attachment for No. 50 chain, page 74. Each link is made in the form of a special attachment extending up several inches above the axles, entirely out of the way. To these attachments are fastened special concave steel flights. These flights taken as a whole, make as it were, one continuous concave trough. The links are fastened together with special steel axles to which are fastened special rollers which run on an iron track. It is operated as follows: The crushed stone or other material to be conveyed is dumped or shoveled, as the case may be, onto this special conveyor which conveys it along. There is a special dumping device for dumping the material at any point along the conveyor. This dumping device is made in the form of a plow. As the material is conveyed along, the crushed stone comes in contact with this plow, which plows it off on both sides, letting it drop into the bins until the bins are filled up to the track, when the plow or dumping device is moved along and empties the material into any part of the bin. It requires very little power to drive this conveyor, the motion being very slow. The conveyor is very durable, and has now been in operation a long time. It has a very large capacity. It can be built almost any length desired and almost any capacity desired.

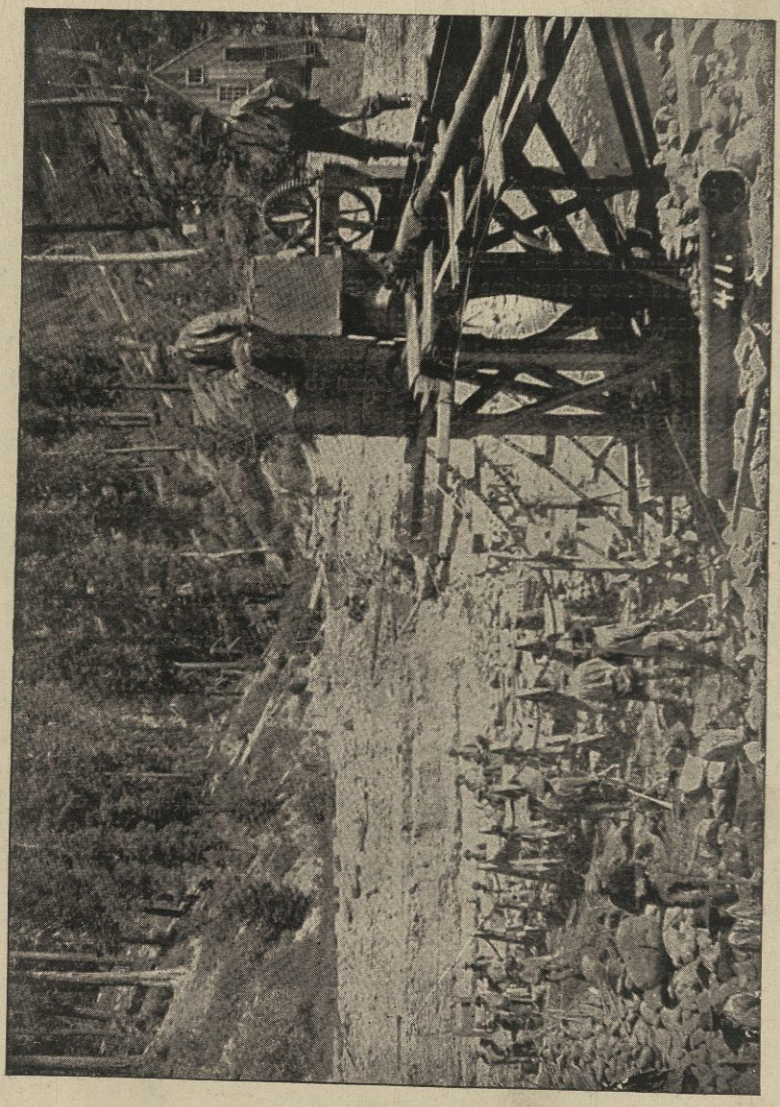
Prices on Application.



Special Wire Rope Tramway. Description on page following.

The cut on opposite page represents our special wire rope tramway for carrying coke and similar materials. The construction is as follows: First, there is a special steel center post and three outer or end posts. The cable extends from the center post in three directions out to the end posts, a distance of several hundred feet more or less as the occasion may require. A traveler is fastened to each of these outgoing cables and a heavy steel bucket is used for carrying the coke, etc. When it is desired to load this bucket, it is let down to the ground near the pile of coke which is to be removed. When the bucket is full it is raised vertically and then carried out along the wire as far as desired. To this bucket is fastened a special patented device for tripping same. This is so arranged that the buckets will be tripped at any point desired between the ground and the cable above, that is, when first starting to dump, the bucket with its load is let down near the ground and automatically dumped by this special patent tripping device. As the pile increases in height the tripping device can be changed so as to dump the bucket higher up, and so on until it is up to the cable. This is entirely automatic and does away entirely with any hand labor at all in emptying the buckets. The cut shows this system as it is used by the Cleveland Gas Light & Coke Co., Cleveland Ohio, for handling their coke. The operation is as follows: The coke is taken from the ovens and after cooling is placed in the bucket and elevated and carried to its destination and automatically dumped as above described. This admits of handling it without any hand labor. The whole machinery is driven by one double hoisting engine in the building below, the engineer being the only person required to attend to all the machinery.

Our Special Malleable Chain No. 017.



There are many places in California, Utah, Nevada, New Mexico, Idaho, Montana, Colorado and other gold producing States, where this conveyor can be used to advantage. We have furnished similar outfits for the Klondike.

Description on pages 111 and 112.

There are in the gold mining regions many old river and creek beds of sand and gravel carrying free gold, in which the ground is too level for hydraulic washings or if not too level, cannot be utilized on account of the scarcity of water. The conveyor shown on the opposite page was especially designed for such localities, the first one being made for the Alturas Mining Co., La Porte, Plumas Co., California, several years ago. This company was so well pleased with it that they have since ordered several more which are now in successful operation. The conveyor consists of the following: Special malleable chain No. 017, page 72, of long pitch, each link being made as an attachment if desired, special light steel buckets, one foot long, steel axles with wheels on lower end, stand with two sprocket wheels and take up boxes, one head stand with two sprockets and two spur gears with countershafts with boxes and drive pulleys, intermediate stands of light pattern of malleable iron and light steel track on which the conveyor runs. The intermediate stand is made so that the ends of the steel track can be quickly attached with machine bolts. The conveyor is in sections so that it can be quickly moved and also that it may be made any length required up to 300 feet. The buckets can be attached on every link, making one continual trough, or they may be put on at intervals of every few feet, just as occasion requires. There is also an attachment on the stands so that a side board can be fastened at each end on one or both sides. These side boards extend down just over the sides of the buckets so that in shoveling the gravel in, none will be thrown out or wasted. The whole structure is designed and built as light as possible so as to be easily moved over the mountains. It may also be shortened or lengthened or moved quickly without danger of anything breaking.

The operation is as follows: The conveyor is placed across the creek bed. The head end is set several feet higher than the main body of the conveyor so as to convey the gravel up high enough to be emptied into the sluice box for washing. The gravel is shoveled into the buckets as they pass slowly along and conveyed and dumped into the sluice and washed. A very large amount of gravel can be moved by this system. As the gravel is worked out, the whole conveyor is moved along to accommodate the work. It is driven at the head end and can be run by a water wheel as shown in cut or an engine of steam or gasoline or motor power.

Prices on Application.

The Conveyor is also adapted to very many kinds of work.

The accompanying letter from the Alturas Mining Co., La Porte, Cal., gives a very full description and shows their process of using the conveyor, and will be of especial interest to those who contemplate similar business.

LA PORTE, PLUMAS CO., CAL., March, 1902.

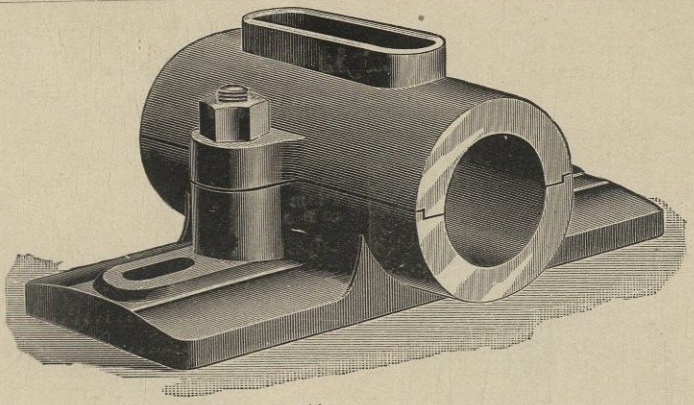
MESSRS. C. O. BARTLETT & CO., Cleveland, O.

DEAR SIRS:

In answer to your request in regard to your special conveyors, we beg to submit you the following: Our Special Automatic Conveying, Elevating and Oriferous Gravel Washing Machine, as used by the Alturas Gold Placer Mining Co., is all right, and where similar conditions to ours exist it is just the thing, and cannot be improved in any way. We have no doubt that this machine could be used profitably in thousands of placer gold mines where grade is lacking to work in the old way. In our operation grade cuts no figure at all. We have elevated the gravel as high as 44 feet, or plenty high enough so that we can adjust sand and gravel up to 40 lbs. weight. Our slate creek has but 2 inches to the rod grade, and we took the water in a ditch 22 in. wide, 18 in. deep, along the hill side, with about ¼ in. grade to the rod, and thus got the water about 75 ft. above the creek, from this we attached a 15 in. pipe leading to the bulkhead, the end being tapered to 7 in. This pipe is No. 18 steel, in lengths 30 in. to 12 ft., and driven together as stove pipe; then we have joints of 6 in. pipe with bands at each end ⅛x¾ in. The joints are about 8 ft. long, and we use canvas hose 12 in. long and draw bands to couple them together. Then we use a 3 ft. hose coupled in the same way onto a 30 in. nozzle reduced to 3 in. to force the water against our water motor. Our water motor is of our own design. It is cheap, light, simple and durable and very strong, and answers our requirements better than anything else we have ever seen. We do not need all this power to drive the machinery, but must have the water to wash the coarse, heavy dirt from the 18 in. flume, with the 12 in. grade to 12 ft. We regulate the power by raising or lowering the nozzle. As we work up the creek the pressure becomes less and less until the pressure is now only about 34 1-3 ft., still it gives better satisfaction than the high pressure because it used to get cramped and bother us some, but now it will stop itself in case of anything getting clogged. This mine will last us 15 or 20 years yet, and will yield a net profit of more than $100,000 more than it would have done if we had stuck to the old method of working it. Where the ground is of considerable depth and loose, or easily dug and shovelled, six or seven men on each machine will load the ground into those buckets as fast as it is practical to wash it in our washer or flume, but where the ground is shallow and the bed rock is rough and difficult to clean we have worked twenty-seven men on one machine for months at a time, and have employed twelve, thirteen and fourteen loading buckets at times, so you see we are limited by the amount we can thoroughly wash, as there is nothing made by overcrowding a flume. We put our buckets on every 6 ft., and find this is enough for our class of work. In some kinds of work they can be put every 4 ft., which will increase the carrying capacity very much.

After we had observed the successful handling of gravel with our machine, and knowing the conditions that existed at Orovill before the dredges were established there, we spoke to some of the promoters about washing the dirt by our process, but they have since put in steam dredges, which are mounted on a scow, and costing from $35,000 to $40,000, the buckets weighing from 500 to 700 lbs., and work in from 20 to 30 ft. depth of water. The trouble with the dredges is that they cannot clean the rich bottom at all, and that is where most of the gold is. In our case, nearly half of the expense of labor is devoted to cleaning the bed rock, which is slate formation with seams of honeycomb, quartz, and 1 in. of the bottom dirt containing most of the gold, and it is very important, indeed, to obtain this and by our system we are able to do it.

Rigid Journal or Flat Box, With Babbitted Bearings.

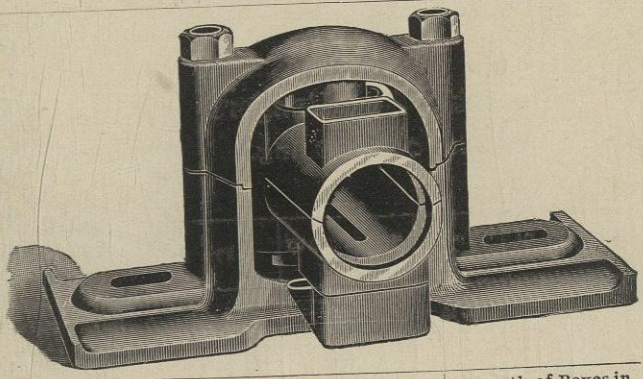


PRICE LIST.

Shaft Size.	Price.	Shaft Size.	Price.
$\frac{15}{16}$ in.	$2.00	$2\frac{7}{16}$ in.	$ 6 00
1 in.	2.00	$2\frac{11}{16}$ in.	7.00
$1\frac{3}{16}$ in.	2.50	$2\frac{15}{16}$ in.	8.50
$1\frac{7}{16}$ in.	3 00	3	10.00
$1\frac{1}{2}$ in.	3.00	$3\frac{3}{16}$ in.	12.00
$1\frac{11}{16}$ in.	3.50	$3\frac{7}{16}$ in.	14.00
$1\frac{15}{16}$ in. 4 in. bearing.	3.50	$3\frac{15}{16}$ in.	16.50
$1\frac{15}{16}$ in. $6\frac{1}{8}$ in. bearing.	4.00	$4\frac{3}{16}$ in.	19.50
2 in. 4 in. bearing.	3.75	$4\frac{7}{16}$ in.	22.00
2 in. $6\frac{1}{8}$ in. bearing.	4.25	$4\frac{11}{16}$ in.	26.00
$2\frac{3}{16}$ in.	4 75	$4\frac{15}{16}$ in.	30.00

Adjustable Self Oiling Pillow Block.

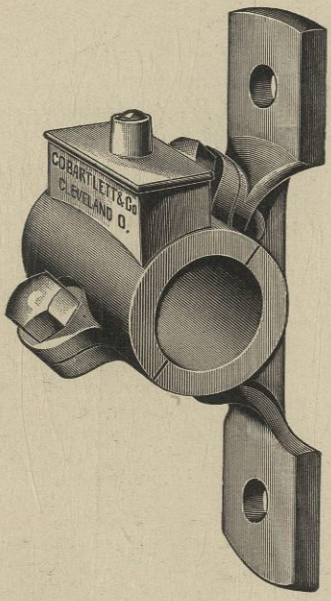
With Babbitted Boxes, (Interchangeable.)



Diameter of Shaft.	Price with Babbitted Boxes.	Additional Price for Base Plates.	Length of Boxes in Inches.
From 1 to $1\frac{3}{16}$"	$ 4 20	.....	$6\frac{1}{2}$
" $1\frac{3}{16}$ to $1\frac{7}{16}$	4 80	$ 4 00	7
" $1\frac{7}{16}$ to $1\frac{11}{16}$	5 90	4 20	7
" $1\frac{11}{16}$ to $1\frac{15}{16}$	7 40	4 40	9
" $1\frac{15}{16}$ to $2\frac{3}{16}$	9 30	4 70	9
" $2\frac{3}{16}$ to $2\frac{7}{16}$	11 30	5 20	11
" $2\frac{7}{16}$ to $2\frac{11}{16}$	13 80	5 90	11
" $2\frac{11}{16}$ to $2\frac{15}{16}$	16 90	6 80	12
" $2\frac{15}{16}$ to $3\frac{3}{16}$	21 10	7 80	12
" $3\frac{3}{16}$ to $3\frac{7}{16}$	25 30	8 90	13
" $3\frac{7}{16}$ to $3\frac{11}{16}$	30 60	10 10	15
" $3\frac{11}{16}$ to $3\frac{15}{16}$	35 80	11 40	16
" $3\frac{15}{16}$ to $4\frac{7}{16}$	47 60	13 80	17

Rigid Post Hangers

With Babbitted Bearings.

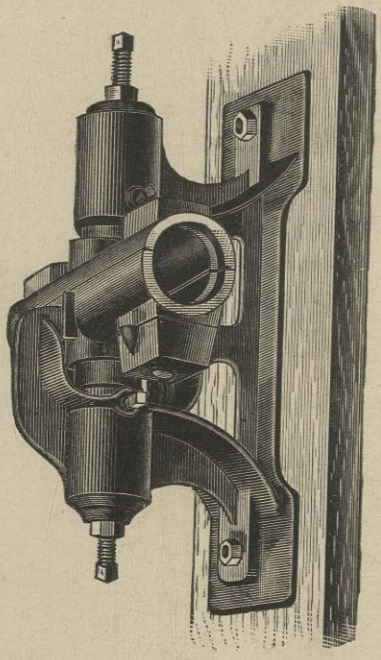


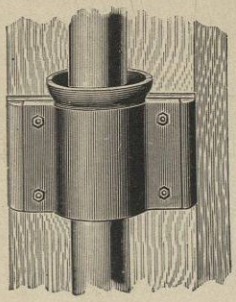
Diameter of Box	Price.
$1\frac{7}{16}$	$ 2 20
$1\frac{11}{16}$	2 80
$1\frac{15}{16}$	3 40
$2\frac{3}{16}$	4 20
$2\frac{7}{16}$	5 00
$2\frac{11}{16}$	6 00
$2\frac{15}{16}$	7 00
$3\frac{3}{16}$	11 40
$3\frac{7}{16}$	13 20
$3\frac{11}{16}$	15 20
$3\frac{15}{16}$	18 50
$4\frac{7}{16}$	23 50
$4\frac{15}{16}$	30 50
$5\frac{7}{16}$	37 50

Adjustable Post Hangers

Babbitted Self-Oiling.

Diameter of Shaft	Length of Boxes	From Base to Center.	Price.
$1\frac{3}{16}$	$6\frac{1}{2}$	$4\frac{5}{8}$	$ 3 80
$1\frac{7}{16}$	7	$4\frac{5}{8}$	4 30
$1\frac{11}{16}$	7	$4\frac{5}{8}$	5 40
$1\frac{15}{16}$	9	$5\frac{1}{2}$	6 40
$2\frac{3}{16}$	9	$5\frac{1}{2}$	8 10
$2\frac{7}{16}$	11	7	10 20
$2\frac{11}{16}$	11	7	12 90
$2\frac{15}{16}$	12	8	16 20
$3\frac{3}{16}$	12	8	20 70
$3\frac{7}{16}$	13	9	26 20
$3\frac{11}{16}$	15	9	31 50
$3\frac{15}{16}$	16	9	38 50
$4\frac{7}{16}$	17	$10\frac{3}{4}$	50 50





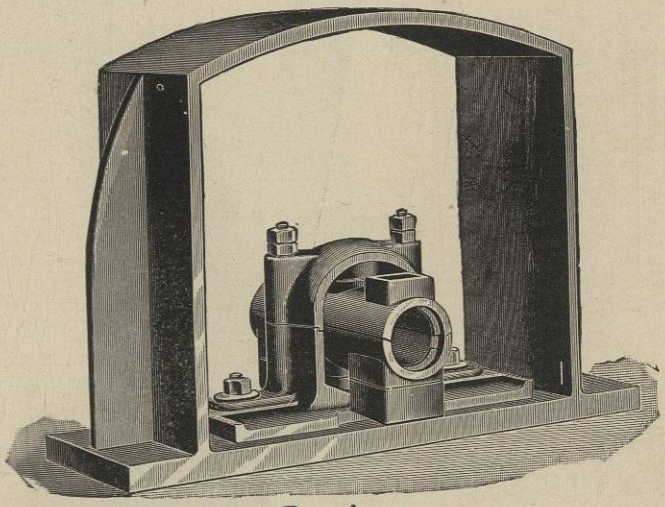
Upright Boxes.

PRICE LIST.

Size of Shaft.	Price.	Size of Shaft.	Price.
$1\frac{7}{16}$ inch	$4.75	$2\frac{15}{16}$ inch	$10.00
$1\frac{11}{16}$ "	5.00	$3\frac{3}{16}$ "	12.00
$1\frac{15}{16}$ "	5 50	$3\frac{7}{16}$ "	14 00
$2\frac{3}{16}$ "	6 00	$3\frac{15}{16}$ "	16 00
$2\frac{7}{16}$ "	7.00	$4\frac{7}{16}$ "	18.00
$2\frac{11}{16}$ "	8 00	$4\frac{15}{16}$ "	20.00

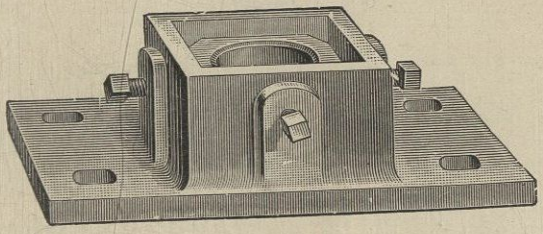
Wall Frames or Boxes.

Prices on Application.



Adjustable Step Bearings,

With Oil Pot.



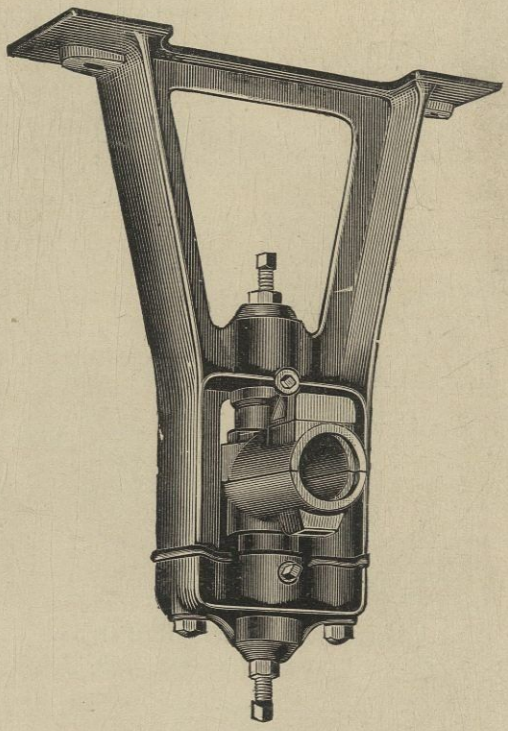
Adjustable in every direction, with tempered steel, button shaped step and brass bushing accurately fitted. A first class article in every particular.

PRICE LIST.

Size.	Price.	Size.	Price.
$1\frac{3}{16}$ inch	$ 6.00	$2\frac{11}{16}$ inch	$16.00
$1\frac{7}{16}$ "	6 75	$2\frac{15}{16}$ "	20.00
$1\frac{11}{16}$ "	7.80	$3\frac{3}{16}$ "	22.80
$1\frac{15}{16}$ "	9.20	$3\frac{7}{16}$ "	26.20
$2\frac{3}{16}$ "	11.00	$3\frac{11}{16}$ "	29.90
$2\frac{7}{16}$ "	13.00	$3\frac{15}{16}$ "	36.00

Adjustable Self-Oiling, Double Brace Hangers.

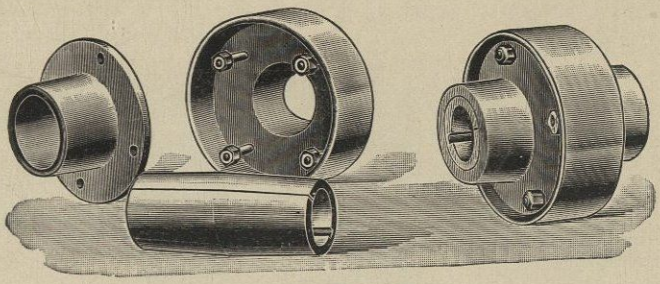
With Babbitted Boxes (Interchangeable). Can be used for Floor Stands.



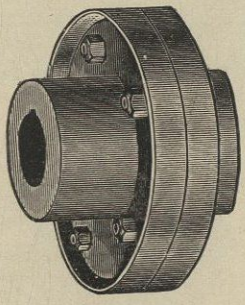
Size of Shaft.	Length of Boxes in In.	8 inch Drop.	10 inch Drop.	12 inch Drop.	14 inch Drop.	16 inch Drop.	18 inch Drop.	20 inch Drop.	24 inch Drop.	30 inch Drop.	36 inch Drop.
1 3/16	6½	$4 00	$ 4 20	$ 4 50	$ 4 80	.....	.....	.....	... ..	.....	.....
1 7/16	7	4 70	4 90	5 20	5 60	$ 5 80	$ 6 00	$ 6 40	.....	.....	.....
1 11/16	7	5 40	5 70	5 90	6 10	6 50	6 80	7 00	.....	.....	.....
1 15/16	9	.....	7 20	7 60	8 10	8 30	8 50	9 00	$ 9 50	$10 30	.....
2 3/16	9	.....	9 10	9 60	9 80	10 10	10 40	10 80	11 70	12 80	.....
2 7/16	11	.....	11 10	11 80	12 10	12 50	12 90	13 40	14 50	15 70	$17 10
2 11/16	11	.....	13 70	14 50	15 00	15 40	15 90	16 50	17 70	19 30	21 00
2 15/16	12	.....	.....	18 00	18 50	19 00	19 60	20 30	21 90	23 50	25 50
3 3/16	12	.....	.....	22 10	22 60	23 20	23 90	24 60	26 40	28 30	30 50
3 7/16	13	.....	.....	26 60	27 20	27 80	28 60	29 40	31 40	33 40	35 80
3 11/16	15	.....	.....	30 90	31 50	32 20	33 00	33 80	36 90	38 20	40 80
3 15/16	16	.....	.....	.....	.....	34 80	36 10	38 30	40 90	42 90	46 80
4 7/16	17	.....	.....	.....	.....	43 80	45 50	47 40	50 00	53 30	57 50

Compression Couplings.

No Keyways needed for this Coupling. Guaranteed to hold.

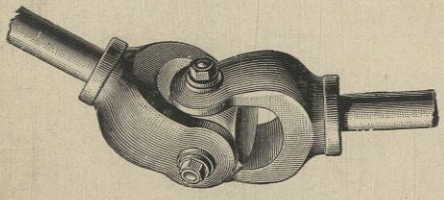


Flanged Faced or Plate Couplings.



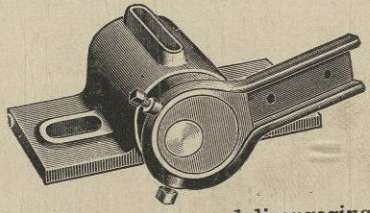
Diameter of Shaft	Flanged Faced Couplings Fitted for Shaft.	Compression Ring Couplings Fitted for Shaft.	Universal Couplings fitted for Shaft	Key-Seating Shafts for Couplings.	Rigid Eccentric Box.
From 1 to 1 3/16	$ 7.00	$ 5.50	$ 6.00	$ .37	$ 7 00
" 1 3/16 to 1 7/16	8 00	6.00	6.50	.37	8.25
" 1 7/16 to 1 11/16	8.50	7.00	7.00	.43	9.50
" 1 11/16 to 1 15/16	9.00	8.00	8 00	.50	11.00
" 1 15/16 to 2 3/16	10.50	9.00	9 50	.50	12.90
" 2 3/16 to 2 7/16	12.50	10.75	11.00	.83	14.50
" 2 7/16 to 2 11/16	15.25	13.00	12.75	.83	16 60
" 2 11/16 to 2 15/16	18.25	16.50	15 00	1.17	18 75
" 2 15/16 to 3 3/16	21.75	20.00	.....	1.17	....
" 3 3/16 to 3 7/16	25.25	24.00	.....	1.25	.....
" 3 7/16 to 3 11/16	29.25	28.00	....	1.25	.....
" 3 11/16 to 3 15/16	33 25	32.00	.....	1.40	.....
" 3 15/16 to 4 7/16	43.25	42 00	.....	1.67	.....

Universal Coupling



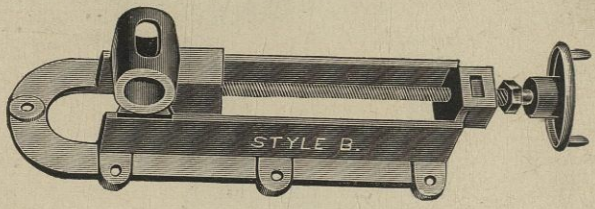
Eccentric Boxes.

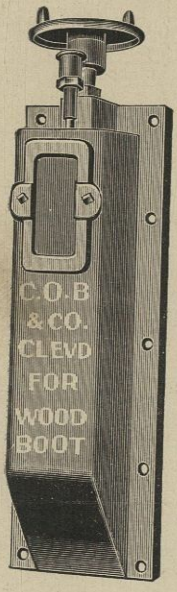
Babbitted Bearings.

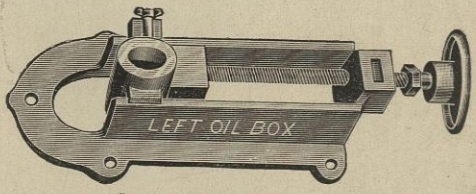


Used for engaging and disengaging Spur Friction Gearing.

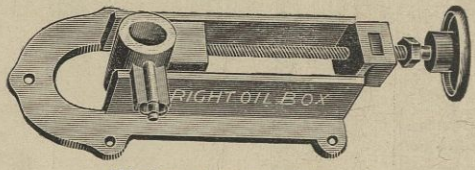
Take-Ups.







Left Hand, Style A.



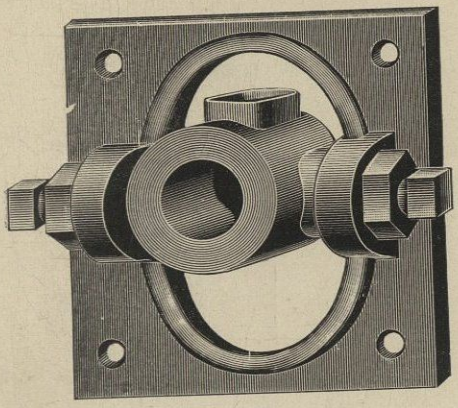
Right Hand, Style A.

PRICE LIST AND DIMENSIONS.

In ordering, give diameter of shaft.

Diameter of Shaft.	Price Each, A or B.
$1\frac{1}{16}$	$1 75
$1\frac{3}{16}$	1 90
$1\frac{5}{16}$	2 00
$1\frac{9}{16}$	2 55
$1\frac{5}{16}$	2 70
$1\frac{7}{16}$	3 25
$1\frac{9}{16}$	3 50
$1\frac{11}{16}$	4 00
$1\frac{15}{16}$	4 75
$2\frac{3}{16}$	5 00
$2\frac{5}{16}$	6 25

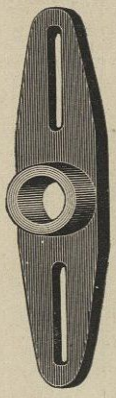
Diameter of Shaft.	Price Each, A or B.
$2\frac{7}{16}$	$ 6 75
$2\frac{9}{16}$	9 50
$2\frac{11}{16}$	10 00
$2\frac{13}{16}$	11 00
$2\frac{15}{16}$	13 50
$3\frac{1}{16}$	15 00
$3\frac{3}{16}$	20 00
$3\frac{5}{16}$	35 00
$3\frac{15}{16}$	40 00
$4\frac{7}{16}$	50 00



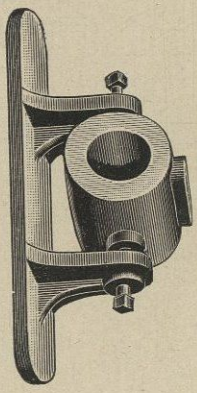
Special Adjustable End Box Babbitted for Belt Conveyors and other Similar Purposes.

Special Cheap Take-Up

For Light Work.



Special Adjustable Hanger.

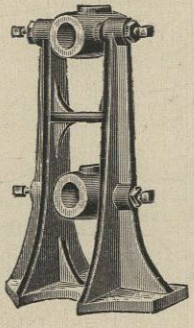


PRICE LIST.

Shaft Size.	Price.	Shaft Size.	Price.
$1\frac{15}{16}$ in.	$2.00	$2\frac{7}{16}$ in.	$ 6.00
1 in.	2.00	$2\frac{11}{16}$ in.	7.00
$1\frac{3}{16}$ in.	2.50	$2\frac{15}{16}$ in.	8.50
$1\frac{7}{16}$ in.	3.00	3	10.00
$1\frac{1}{2}$ in.	3.00	$3\frac{3}{16}$ in.	12.00
$1\frac{11}{16}$ in.	3.50	$3\frac{7}{16}$ in.	14.00
$1\frac{15}{16}$ in. 4 in. bearing.	3.50	$3\frac{15}{16}$ in.	16.50
$1\frac{15}{16}$ in. $6\frac{1}{8}$ in. bearing.	4.00	$4\frac{3}{16}$ in.	19.50
2 in. 4 in. bearing.	3.75	$4\frac{7}{16}$ in.	22.00
2 in. $6\frac{1}{8}$ in. bearing.	4.25	$4\frac{11}{16}$ in.	26.00
$2\frac{3}{16}$ in.	4.75	$4\frac{15}{16}$ in.	30.00

Double Stand

with Babbitted Bearings for Belt Conveyors and other Similar Purposes.



Diameter of Shaft.	Price with Babbitted Boxes.
From 1 to $1\frac{3}{16}$"	$ 4.20
" $1\frac{3}{16}$ to $1\frac{7}{16}$	4.80
" $1\frac{7}{16}$ to $1\frac{11}{16}$	5.90
" $1\frac{11}{16}$ to $1\frac{15}{16}$	7.40
" $1\frac{15}{16}$ to $2\frac{3}{16}$	9.30
" $2\frac{3}{16}$ to $2\frac{7}{16}$	11.30
" $2\frac{7}{16}$ to $2\frac{11}{16}$	13.80
" $2\frac{11}{16}$ to $2\frac{15}{16}$	16.90
" $2\frac{15}{16}$ to $3\frac{3}{16}$	21.10
" $3\frac{3}{16}$ to $3\frac{7}{16}$	25.30
" $3\frac{7}{16}$ to $3\frac{11}{16}$	30.60
" $3\frac{11}{16}$ to $3\frac{15}{16}$	35.80
" $3\frac{15}{16}$ to $4\frac{7}{16}$	47.60

Finished Shafting, Steel or Iron.

All Shafting true, straight and exact to gauge. We make a specialty of furnishing shafting for complete plants and on special contract, cut to length.

Diameter in Inches.	Weigh per foot.	Price per foot.	Key Seats per ft. or fraction of ft.	Width of Key Seats.	Telegraph Code.
1	2.67	$0 70	30	1/4	Tack
1 1/16	3.02	70	30	1/4	Talk
1 1/8	3.38	70	35	1/4	Tame
1 3/16	3.78	75	35	1/4	Tang
1 1/4	4.18	75	35	3/8	Tank
1 5/16	4.61	75	40	3/8	Tape
1 3/8	5.06	75	40	3/8	Tar
1 7/16	5.50	80	40	3/8	Task
1 1/2	6.00	80	40	3/8	Taunt
1 9/16	6.53	80	45	3/8	Taw
1 5/8	7.06	80	45	3/8	Tea
1 11/16	7.60	87	45	1/2	Teal
1 3/4	8.20	87	45	1/2	Tease
1 13/16	8.78	87	50	1/2	Teem
1 7/8	9.35	87	50	1/2	Teeth
1 15/16	10.00	1 05	50	1/2	Tent
2	10.65	1 05	50	1/2	Term
2 1/16	11.33	1 05	50	1/2	Test
2 1/8	12.07	1 05	55	1/2	Text
2 3/16	12.80	1 25	55	1/2	Thank
2 1/4	13.50	1 25	55	5/8	Thaw
2 5/16	14.15	1 25	60	5/8	Theme
2 3/8	15.07	1 25	60	5/8	Thigh
2 7/16	16.00	1 50	60	5/8	Thong
2 1/2	16.68	1 80	60	5/8	Thrift
2 5/8	18.40	1 80	60	5/8	Throb
2 11/16	19.30	1 80	65	5/8	Thrush
2 3/4	20.20	2 15	65	3/4	Thumb
2 13/16	21.15	2 15	70	3/4	Tick
2 7/8	22.00	2 15	70	3/4	Tide
2 15/16	23.00	2 15	70	3/4	Tiff
3	24.05	2 60	70	3/4	Tin
3 1/8	26.09	2 60	80	3/4	Toad
3 3/16	27.00	2 60	80	3/4	Toil
3 1/4	28.22	2 95	80	7/8	Tongue
3 3/8	30.43	2 95	80	7/8	Torch
3 7/16	31.50	2 95	90	7/8	Toss
3 1/2	32.75	4 00	1 00	7/8	Town
3 3/4	37.50	4 00	1 00	1	Tramp
3 7/8	40.00	4 00	1 00	1	Tree
3 15/16	41.25	4 00	1 20	1	Tribe
4	42.70	5 30	1 20	1	Trip
4 1/4	48.26	5 30	1 20	1 1/8	Trot
3 7/16	52.62	5 30	1 45	1 1/8	Tuft
4 3/4	60.00	.....	1 75	1 1/8	Turf
5	66.50	.....	1 75	1 1/4	Twig

The above price is for shafts up to 20 feet. For longer lengths we charge extra. For short pieces we charge for cutting off. In ordering key seats, a sketch should always be sent with order, locating same. We charge extra for boxing.

Leather Belting.

Heavy double belts twice the price of single.

SINGLE.		SINGLE.	
½ in.	$ .10	14 in.	$ 3.08
⅝ "	.12	15 "	3.30
¾ "	.14	16 "	3 52
⅞ "	.16	17 "	3.74
1 "	.17	18 "	3.96
1¼ "	.23	19 "	4.18
1½ "	.29	20 "	4.40
1¾ "	.35	21 "	4.62
2 "	41	22 "	4.84
2¼ "	.47	23 "	5.06
2½ "	.53	24 "	5.28
2¾ "	.59	25 "	5.50
3 "	.64	26 "	5.72
3¼ "	.70	27 "	5.94
3½ "	.76	28 "	6.16
3¾ "	.82	30 "	6.60
4 "	.87	32 "	7.04
4½ "	.98	34 "	7 48
5 "	1.09	36 "	7.92
5½ "	1.21	38 "	8.36
6 "	1.32	40 "	8.80
6½ "	1 43	44 "	9.68
7 "	1.54	48 "	10.56
8 "	1.76	52 "	11.44
9 "	1.98	56 "	12.32
10 "	2.20	60 "	13.20
11 "	2.42	64 "	14.08
12 "	2.64	68 "	14.96
13 "	2.86	72 "	15.84

The Gandy Belt.

FOUR-PLY.		SIX-PLY.	
Inch.	Price per foot.	Inch.	Price per foot.
1½	$0 13½	3	$0 36
1¾	13¾	3½	42
2	18	4	48
2¼	20¼	4½	54
2½	22½	5	60
2¾	24¾	6	72
3	27	7	84
3½	31½	8	96
4	36	9	1 08
5	45	10	1 20
6	54	12	1 44
7	63	13	1 56
8	72	14	1 68
9	81	15	1 80
10	90	16	1 92
11	99	17	2 04
12	1 08	18	2 16

EIGHT-PLY.			
Inch.	Price per foot.	Inch.	Price per foot.
6	$0 90	16	$2 40
7	1 05	17	2 55
8	1 20	18	2 70
9	1 35	20	3 00
10	1 50	24	3 60
11	1 65	30	4 50
12	1 80	36	5 40
14	2 10	40	6 90
15	2 25		

Rubber Belting.

Inch.	2-Ply. Price per ft.	3-Ply. Price per ft.	4-Ply. Price per ft.	5-Ply. Price per ft.	6-Ply. Price per ft.
1	$0 07	.....	.....	.....	.....
1¼	09	.....	.....	.....	.....
1½	11	.....	.....	.....	.....
2	15	$0 17	$0 21	$0 26	$0 31
2½	18	22	26	33	39
3	22	26	31	39	47
3½	26	30	37	46	56
4	36	34	42	53	63
4½	33	39	47	59	71
5	36	43	52	65	78
6	43	52	62	78	93
7	51	60	73	91	1 10
8	59	70	84	1 05	1 26
9	67	80	95	1 18	1 42
10	75	90	1 07	1 33	1 60
11	83	1 00	1 18	1 47	1 77
12	91	1 08	1 30	1 62	1 95
13	1 00	1 18	1 42	1 77	2 13
14	1 08	1 28	1 54	1 92	2 31
15	1 16	1 38	1 66	2 07	2 49
16	1 25	1 50	1 78	2 22	2 67
18	1 41	1 70	2 02	2 52	3 03
20	1 58	1 90	2 26	2 82	3 39
22	1 76	2 12	2 52	3 15	3 78

Solid Cotton Belting.

Any Width Made to Order.

Inch.	2-Ply. Price per run. ft.	3-Ply. Price per run. ft.	4-Ply. Price per run. ft.	5-Ply. Price per run. ft.	6-Ply. Price per run. ft.
1	$0 04	.....	.....	.....	.....
1½	05	$0 06	.....	.....	.....
2	06	08	$0 12	.....	.....
2½	06½	10	14	.....	.....
3	07	12	16	.....	.....
3½	08	14	18	.....	.....
4	09	15	21	$0 34	.....
4½	.....	17	24	36	.....
5	13	19	26	38	.....
5½	.....	.....	.....	40	.....
6	17	23	30	42	$0 46
7	19	27	34	45	51
8	21	31	38	50	57
9	23	35	44	56	66
10	26	39	50	63	75
12	33	48	60	75	90
14	41	60	75	94	1 12
16	49	72	90	1 12	1 35
18	57	82	1 00	1 28	1 50
20	61	90	1 15	1 44	1 72
22	65	1 00	1 35	1 62	1 94
24	69	1 10	1 55	1 80	2 16

Horse Power of Shafting.

H. P.	25	30	35	40	45	50	55	60	70	80	100	125	150	175	200	250	300
1	1 3/8	1 5/16	1 1/4	1 1/4	1 3/16	1 3/16	1 1/8	1 1/16	1	15/16	7/8	13/16	3/4	3/4	11/16	5/8	1/2
2	1 13/16	1 11/16	1 9/16	1 1/2	1 7/16	1 7/16	1 3/8	1 5/16	1 1/4	1 3/16	1 1/8	1 1/16	1	15/16	7/8	13/16	3/4
3	2	1 15/16	1 7/8	1 3/4	1 11/16	1 5/8	1 9/16	1 1/2	1 7/16	1 3/8	1 5/16	1 3/16	1 1/16	1 1/8	1 1/16	1	1
4	2 1/4	2 1/8	2	1 15/16	1 7/8	1 13/16	1 3/4	1 5/8	1 9/16	1 1/2	1 7/16	1 5/16	1 3/16	1 1/4	1 1/16	1 1/8	1 1/16
5	2 7/16	2 1/4	2 3/16	2 1/8	2	1 15/16	1 7/8	1 13/16	1 3/4	1 5/8	1 1/2	1 3/8	1 5/16	1 1/4	1 1/4	1 3/16	1 1/8
6	2 9/16	2 7/16	2 1/4	2 3/16	2 1/8	2	1 15/16	1 7/8	1 13/16	1 3/4	1 5/8	1 1/2	1 3/8	1 5/16	1 1/4	1 3/16	1 1/8
7	2 11/16	2 9/16	2 7/16	2 1/4	2 3/16	2 1/8	2 1/16	2	1 15/16	1 7/8	1 13/16	1 9/16	1 1/2	1 3/8	1 5/16	1 1/4	1 3/16
8	2 7/8	2 3/4	2 9/16	2 7/16	2 1/4	2 3/16	2 1/8	2	1 15/16	1 13/16	1 11/16	1 5/8	1 1/2	1 3/8	1 5/16	1 1/4	1 3/16
9	2 15/16	2 3/4	2 5/8	2 1/2	2 3/8	2 5/16	2 1/4	2 3/16	2 1/16	2	1 7/8	1 3/4	1 5/8	1 1/2	1 7/16	1 5/16	1 1/4
10	3 1/16	2 7/8	2 3/4	2 5/8	2 1/2	2 7/16	2 5/16	2 1/4	2 1/8	2 1/16	2	1 13/16	1 11/16	1 1/2	1 7/16	1 5/16	1 5/16
11	3 1/8	2 15/16	2 13/16	2 5/8	2 9/16	2 1/2	2 3/8	2 5/16	2 1/8	2 1/16	2	1 13/16	1 11/16	1 9/16	1 1/2	1 7/16	1 3/8
12	3 3/16	3 1/8	2 7/8	2 3/4	2 11/16	2 5/8	2 1/2	2 7/16	2 3/8	2 5/16	2 1/8	2	1 13/16	1 5/8	1 1/2	1 7/16	1 3/8
13	3 1/4	3 3/16	3	2 7/8	2 3/4	2 11/16	2 5/8	2 9/16	2 7/16	2 3/8	2 1/4	2 1/16	1 15/16	1 13/16	1 5/8	1 1/2	1 7/16
14	3 7/16	3 5/16	3 1/8	2 15/16	2 7/8	2 13/16	2 11/16	2 5/8	2 1/2	2 7/16	2 3/16	2 1/8	2	1 7/8	1 13/16	1 11/16	1 7/16
15	3 1/2	3 3/8	3 1/8	3 1/8	2 7/8	2 13/16	2 3/4	2 11/16	2 5/8	2 9/16	2 7/16	2 3/16	2 1/16	1 15/16	1 13/16	1 11/16	1 1/2
16	3 9/16	3 3/8	3 3/16	3 1/8	2 15/16	2 13/16	2 3/4	2 5/8	2 9/16	2 7/16	2 3/16	2 1/16	1 15/16	1 13/16	1 3/4	1 5/8	1
17	3 5/8	3 7/16	3 5/16	3	2 7/8	2 13/16	2 3/4	2 11/16	2 9/16	2 7/16	2 5/16	2 1/8	2	1 7/8	1 13/16	1 5/8	1
18	3 11/16	3 1/2	3 5/16	3 3/16	3 1/16	2 15/16	2 13/16	2 3/4	2 5/8	2 1/2	2 3/8	2 1/4	2 1/16	1 15/16	1 13/16	1 11/16	1
20	3 13/16	3 5/8	3 7/16	3 5/16	3 3/16	3 1/16	2 15/16	2 13/16	2 11/16	2 5/8	2 7/16	2 5/16	2 3/16	2 1/16	1 15/16	1 13/16	1
25	4 1/8	3 15/16	3 3/4	3 5/8	3 7/16	3 5/16	3 3/16	3 1/16	2 15/16	2 13/16	2 5/8	2 7/16	2 5/16	2 3/16	2 1/16	1 15/16	1
30	4 7/16	4 1/8	3 15/16	3 3/4	3 11/16	3 1/2	3 5/16	3 1/8	3 1/4	3 1/16	2 7/8	2 3/4	2 5/8	2 1/2	2 3/8	2 1/4	1
35	4 9/16	4 5/16	4 1/8	3 15/16	3 3/4	3 5/8	3 9/16	3 7/16	3 5/16	3 3/16	3	2 7/8	2 3/4	2 5/8	2 1/2	2 3/8	2

Horse Power Transmitted by Leather Belts,

1 Inch Wide, 1200 Feet per Minute = 1 Horse-Power.

Speed in Feet per Minute.	WIDTH OF BELTS IN INCHES.											
	2	3	4	5	6	8	10	12	14	16	18	20
	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.	H. P.
400	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10
600	1 1/2	2 1/4	3	3 3/4	4 1/2	6	7 1/2	9	10 1/2	12	13 1/2	15
800	2	3	4	5	6	8	10	12	14	16	18	20
1000	2 1/2	3 3/4	5	6 1/4	7 1/2	10	12 1/2	15	17 1/2	20	22 1/2	25
1200	3	4 1/2	6	7 1/2	9	12	15	18	21	24	27	30
1500	3 3/4	5 3/4	7 1/2	9 1/2	11 1/2	15	18 3/4	22 1/2	26 1/2	30	33 3/4	37 1/2
1800	4 1/2	6 3/4	9	11 1/4	13 1/2	18	22 1/2	27	31 1/2	36	40 1/2	45
2000	5	7 1/2	10	12 1/2	15	20	25	30	35	40	45	50
2400	6	9	12	15	18	24	30	36	42	48	54	60
2800	7	10 1/2	14	17 1/2	21	28	35	42	49	56	63	70
3000	7 1/2	11 1/2	15	18 3/4	22 1/2	30	37 1/2	45	52 1/2	60	67 1/2	75
3500	8 3/4	13	17 1/2	22	26	35	44	52 1/2	61	70	79	88
4000	10	15	20	25	30	40	50	60	70	80	90	100
4500	11 1/4	17	22 1/2	28	34	45	57	69	78	90	102	114
5000	12 1/2	19	25	31	37 1/2	50	62 1/2	75	87 1/2	100	112	125

"Salem" Steel Buckets.

REVISED PRICE LIST.

Capacity Bush. per hour 200 ft. per min. Buckets every 12 inches.	Size of Bucket. Width on Belt	Projection.	Telegraph Code for Sizes of Buckets.	Suitable for ordinary Mill and Elevator work. Gauge of Steel Used and Price.	Suitable for Ear Corn, etc. Gauge.	Price.	Suitable for ores coal, etc. Gauge.	Price.
21	2 in.	x 2 in.	Dale	No. 25,	$0.04			
40	2½ "	x 2¼ "	Dame	" 24,	.05			
59	3 "	x 2½ "	Damp	" 24,	.06			
69	3½ "	x 2½ "	Dance	" 24,	.07			
87	3 "	x 3 "	Dank	" 23,	.09			
102	3½ "	x 3 "	Dare	" 23,	.10			
116	4 "	x 3 "	Dark	" 23,	.11	No. 16,	$ .30	
131	4½ "	x 3 "	Dart	" 23,	.12	" 16,	.31	
159	4 "	x 3½ "	Dash	" 22,	.12	" 16,	.33	
179	4½ "	x 3½ "	Date	" 22,	.13	" 16,	.34	
199	5 "	x 3½ "	Daunt	" 22,	.14	" 16,	.35	
229	5 "	x 4 "	Dawn	" 22,	.18	" 16,	.39	
251	5½ "	x 4 "	Day	" 21,	.19	" 16,	.40	
274	6 "	x 4 "	Daze	" 21,	.20	" 16,	.41	No. 14, $ .46
500	7 "	x 4½ "	Deaf	" 20,	.30	" 16,	.49	" 14, .54
670	8 "	x 5 "	Deal	" 19,	.41	" 16,	.59	" 14, .66
754	9 "	x 5 "	Dean	" 19,	.43	" 16,	.63	" 14, .70
973	10 "	x 5½ "	Dear	" 19,	.54	" 16,	.76	" 14, .88
1220	10 "	x 6 "	Debt	" 18,	.62	" 16,	.81	" 14, .90
1342	11 "	x 6 "	Deck	" 18,	.65	" 16,	.85	" 14, .94
1464	12 "	x 6 "	Deed	" 18,	.68	" 16,	.89	" 14, .98
1708	14 "	x 6 "	Deep	" 18,	.74	" 16,	.97	" 14, 1.06
1952	16 "	x 6 "	Deign	" 18,	.81	" 16,	1.05	" 14, 1.15
2196	18 "	x 6 "	Delf	" 18,	.89	" 16,	1.13	" 14, 1.25
2440	20 "	x 6 "	Dell	" 18,	.95	" 16,	1 21	" 14, 1.35
1590	10 "	x 7 "	Den	" 18,	.73	" 16,	1 01	" 14, 1.10
1749	11 "	x 7 "	Dense	" 18,	.76	" 16,	1 05	" 14, 1.15
1908	12 "	x 7 "	Dent	" 18,	.80	" 16,	1.09	" 14, 1.20
2226	14 "	x 7 "	Depth	" 18,	.88	" 16,	1.17	" 14, 1.30
2544	16 "	x 7 "	Desk	" 18,	.96	" 16,	1.25	" 14, 1.40
2862	18 "	x 7 "	Dew	" 18,	1.04	" 16,	1 33	" 14, 1.50
3180	20 "	x 7 "	Dig	" 18,	1.12	" 16,	1.41	" 14, 1 62
3184	16 "	x 8 "	Dike	" 18,	1.14	" 16,	1 41	" 14, 1.69
3582	18 "	x 8 "	Din	" 18,	1.22	" 16,	1.51	" 14, 1.81
3980	20 "	x 8 "	Dip	" 18,	1.30	" 16,	1.61	" 14, 1.93
4378	22 "	x 8 "	Dirk	" 18,	1.38	" 16,	1.71	" 14, 2 05
4776	24 "	x 8 "	Dive	" 18,	1.46	" 16,	1 81	" 14, 2.17

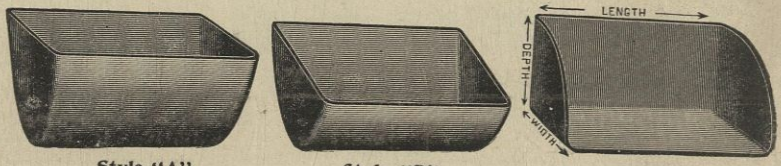
For "DOUBLE ENDS"—Sometimes used when buckets are carried by ENDS instead of BACK—add to price of bucket chosen, as follows, viz.:

12 cts. for 5 in. projection ; 14 cts. for 5½ in. projection ; 16 cts. for 6 in. projection ; 18 cts. for 7 in. projection ; 23 cts. for 8 in. projection, if made of No. 18 Steel.

17 cts. for 5 in. projection ; 19 cts for 5½ in. projection; 21 cts. for 6 in. projection ; 24 cts. for 7 in. projection ; 30 cts. for 8 in. projection, if made of No. 16 Steel.

22 cts. for 5 in. projection ; 24 cts. for 5½ in. projection ; 26 cts. for 6 in. projection ; 29 cts. for 7 in projection ; 37 cts. for 8 in. projection, if made of No. 14 Steel.

Malleable Iron Buckets.



Style "A" Style "B" Style "C"

We use refined malleable iron in the manufacture of these Buckets. They are seamless, strong and smooth and their rounded corners guarantee free delivery of the material handled.

They are made in three styles, as shown above, "A," "B" and "C" and sizes as per list below:

Style "A" is adapted for handling cement, coal, chemicals, pulp, etc.
" "B" " " " ores, stone, etc., in inclined elevators.
" "C" " " " sugar, clay and sticky materials.

We punch as directed and make no extra charge.

PRICE LIST.

STYLE A.

Length.	Width.	Depth.	Capacity, Cubic Inches	Capacity, Quarts.	Price.
4	2¾	2½	13	.2	$0 20
5	3½	3	25	.4	35
6	4	3½	50	.74	45
7	4½	4	60	.86	55
8	5	4	108	1.6	65
10	6	5	160	2.37	90
12	5½	5	280	4.	1.15
12	7	5½	300	4.4	1.25
14	7	5½	350	5.1	1.75
18	10	7	1175	17.5	4.00

STYLE B.

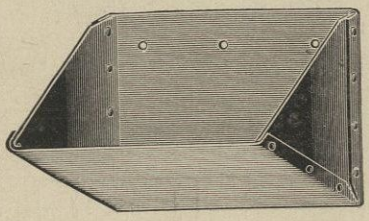
4	1½	1	4		15
8	3½	2½	48	.7	50
10	4	3	60	.9	70
12	5½	4	135	2.	90

STYLE C.

8	4½	4	84	1.	50
10	5	4	120	1.5	70
12	5	4	144	2.	90
16	7	5½	380	6.5	1.80

Stone and Ore Steel Elevator Buckets.

Style A.

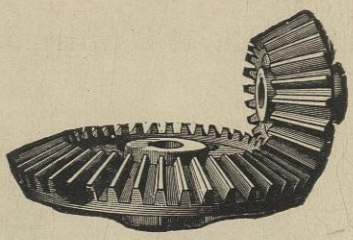


PRICE LIST.

TELEGRAPHIC CODE FOR SIZE.	SIZE OF BUCKET.			TELEGRAPHIC CODE FOR GAUGE.					
	Width across Belt, in inches.	Projection from Belt, in inches.	Length with Belt, in inches.	Glib.	Gird.	Gilt.	Give.	Gig.	Gibe.
				Price each, 18 Gauge	Price each, 16 Gauge.	Price each, 14 Gauge.	Price each, 12 Gauge.	Price each, 10 Gauge.	Price each, 8 Gauge.
1. bat	5	3	4	$0.25	$0.30	$0.35	$0 40	.....	.....
2. boy	6	3½	5	.30	.35	.40	.45	.....	.....
3. bass	7	4	6	.36	.40	.45	.50	.....	.....
4. bear	8	4½	7	.40	.45	.50	.55	$0.65	.....
5. bell	9	5	8	....	.50	.55	.60	.70	.....
6. bend	10	5½	9	.....	.55	.60	.70	.85	.....
7. big	11	5½	9½	.....	.60	.65	.75	.90	$1.05
8. bit	12	6	10	.....	.70	.80	.95	1.10	1.25
9. blot	13	6½	11	.....	.80	.90	1.00	1.16	1.40
10. bode	14	7	12	.....	.....	1.00	1.10	1.25	1.60
11. brief	15	7½	12	.....	.....	1 20	1.40	1.60	1 85
12. bore	16	8	13	.....	.....	1.30	1.50	1.75	2.00
13. brat	17	8	13	.....	.....	1.40	1 60	1.85	2.20
14. buff	18	9	14	.....	.....	.....	1.80	2 10	2.40
15. bull	20	9	14	.....	.....	.....	2.00	2.30	2.50
16. brig	22	10	14	.....	.....	.....	2.20	2.50	2.75
17. burl	24	10	15	.....	.....	.....	2.40	2.70	3 00

Buckets of the above dimensions are generally considered standard and are commonly used for Rubber Belt Elevators; either of the dimensions can be varied to a fraction of an inch for special purposes. Where the Buckets are used in connection with chain, the length of the back conforms to the spacing of the attachments.

Bevel Gears.

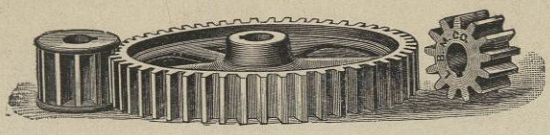


In Bevel Gearing, one gear is always larger than the other. Large one is called gear, small one is called pinion.

In addition to the patterns scheduled below, we are constantly adding to our list, and we can furnish almost any size of gearing that may be required.

No. of Pattern.	Cogs.	Pitch.	Face.	Pitch Diameter.	Ratio.	Price. Rough.	Price. Bored and key Seated.
17	100	3/8	1	11.75	5.55	$1.50	$ 3.00
18	18	3/8	1	2.12		.60	1.10
36	70	1/2	1	11.14	5.00	1.50	3.00
37	14	1/2	1	2.22		.65	1.20
22	40	5/8	7/8	7.96	2.00	1.40	2.80
23	20	5/8	7/8	4.00		1.10	2.20
15	60	3/4	1 1/2	14.33	6.00	2.60	4.80
16	10	3/4	1 1/2	2.43		.50	1.10
1c	76	3/4	2	18.63	4.47	3.50	7.00
2c	17	3/4	2	4.08		.75	1.50
3c	42	3/4	1 3/4	10.04	2.80	2.00	4.00
4c	15	3/4	1 3/4	3.60		.65	1.10
5c	24	7/8	1 3/4	6.70	2.00	1.75	3.00
6c	12	7/8	1 3/4	3.38		.65	1.30
7	58	7/8	1 3/4	16.15	4.83	2.25	3.60
8	12	7/8	1 3/4	3.38		.65	1.35
84	32	1	1 3/4	10.20	2.66	2.30	3.25
35	12	1	1 3/4	3.86		1.10	1.90
19	38	1	2	12.11	2.00	3.25	4.25
48	19	1	2	6.08		1.25	1.65
33	38	1	2	12.11	2.71	3.25	4.25
32	14	1	2	4.49		1.25	2.25
9c	25	1	2	7.98	1.92	1.35	1.75
10c	13	1	2	4.18		1.00	1.50
11c	56	1	3	17.83	4.00	6.00	7.60
12c	14	1	3	4.49		1.50	3.00
13c	25	1	1 3/4	7.98	1.39	1.25	2.00
14c	18	1	1 3/4	5.76		1.25	1.75
60b	76	1	2 1/2	24.20	3.04	6.70	8.40
61b	25	1	2 1/2	7.98		1.25	2.00
55c	65	1 1/8	3	24.00	4.06	7.50	10.00
16c	16	1 1/8	3	5.77		1.65	3.00
11	25	1 1/8	2	8.98	1.47	2.00	3.50
12	17	1 1/8	2	6.12		1.50	2.50
9	40	1 1/8	2 1/2	14.34	1.14	3.35	4.65
10	35	1 1/8	2 1/2	12.55		2.75	4.00
	22	1 1/4	3	10.54	1.50	3.50	5.00
	33	1 1/4	3	15.78	1.50	5.00	7.00
20	40	1 1/4	2 1/4	15.93	3.63	$ 3.50	$ 5.00
21	11	1 1/4	2 1/4	4.44		1.85	2.75
1	24	1 1/4	2 1/2	9.58	1.33	2.20	3.50
2	18	1 1/4	2 1/2	7.20		1.50	2.50
13	22	1 1/4	2 1/2	8.78	1.47	3.00	4.25
14	15	1 1/4	2 1/2	6.01		1.75	3.00
30	15	1 1/4	2 1/2	6.01	3.07	2.50	4.00
31	46	1 1/4	2 1/2	18.32		5.00	7.00
5	38	1 1/4	3	15.14	1.90	4.00	6.00
6	20	1 1/4	3	7.99		2.35	4.10
24	40	1 1/4	3	15.93	2.00	4.75	6.50
25	20	1 1/4	3	7.99		2.35	3.50
3	35	1 1/4	3 1/4	13.94	1.25	4.10	6.00
4	28	1 1/4	3 1/4	11.16		3.25	5.00
17c	22	1 1/4	2 1/2	8.78	2.00	2.25	4.00
18c	11	1 1/4	2 1/2	4.44		1.75	3.00
50	18	1 3/8	3		3.00	3.00	5.00
51	54	1 3/8	3			9.60	12.00
58	92	1 3/8	4	40.27	7.08	16.50	21.00
59	13	1 3/8	4	5.75		3.25	5.00
26	50	1 1/2	3 1/2	23.89	2.04	10.00	12.50
27	24	1 1/2	3 1/2	11.49		4.25	6.50
34	98	1 1/2	3 1/2	46.80	1.31	25.00	32.00
35	74	1 1/2	3 1/2	35.34		19.00	24.00
52	63	1 1/2	4 1/2	30.09	5.25	16.00	19.50
53	12	1 1/2	4 1/2	5.79		3.00	5.00
55	47	2	5 1/2	29.94	2.61	25.00	30.00
54	18	2	5 1/2	11.52		8.50	12.00
56	59	2	5 1/2	37.57	5.35	30.00	37.50
57	11	2	5 1/2	7.10		4.50	6.50
70	14	2 1/4	6	10.02	5.5	11.00	15.00
71	77	2 1/4	6	55.14		72.00	90.00
72	27	2 1/4	6	19.33	1.26	18.00	22.50
73	34	2 1/4	6	24.35		27.50	35.00
M	45	2 1/4	5 1/2	32.25	1.50	29.50	37.50
M	30	2 1/4	5 1/2	21.53		22.50	28.00

Spur Gears.



No. of Pattern.	Cogs.	Pitch.	Face.	Pitch Diameter.	Price. Rough.	Price. Bored and Key seated
51	14	3/8	5/8	1.67	$ .50	$ 1 00
36	74	1/2	1	11.77	1 65	3.30
47	38	1/2	3/4	6.05	1.10	2 20
64	25	1/2	1 1/4	3.98	75	1.50
50	16	1/2	3/4	2.54	70	1.50
28	46	5/8	3/4	9.16	1.50	3.25
35	54	3/4	1 1/2	12.86	1.75	3.00
44	22	3/4	1 3/8	5.27	1.00	2 00
45	21	3/4	1 5/8	5.03	1.00	2.00
46	25	3/4	1	5.98	1.25	2.50
62	48	3/4	2	11.47	2.25	4 00
63	28	3/4	2	6.70	1.50	3.00
37	31	3/4	1 3/4	7.41	1.50	3 00
56	14	3/4	1 1/4	3.37	1.25	2.25
37	31	7/8	1 3/4	8.63	2.50	3.75
43	18	7/8	2 1/4	5.04	2.25	3 50
49	12	7/8	1 7/8	3.38	1.25	2 25
52	45	7/8	1 3/4	12.54	2.60	4.00
38	22	1	2	7.03	1.25	3 00
41	17	1	2 1/2	5 44	1.30	3.10
48	11	1	2	3.55	1.00	2.50
70 B	12	1	2 1/2	3.86	1.25	2.75
71 B	25	1	2 1/2	7.98	2.25	4.50
72 B	74	1	2 1/2	23.55	6.35	9.00
73 B	94	1	2 1/2	29.93	9 50	12.00
74	61	1	2 1/2	20.38	6.00	8.00
65 C	16	1	2 3/4	5.12	1.50	3.65
66 C	20	1	2 3/4	6 39	2.00	4.10
67 C	15	1	2 3/4	4.80	1.40	3.00
68 C	136	1	2 3/4	43.28		
42	17	1 1/8	1 3/4	6.12	1.65	3.00
55	43	1 1/8	2	15 39	5 00	7.00
113	13	1 1/4	3	5 22	$ 2.00	$ 3.25
114	60	1 1/4	3	23.88	10.50	13.00
133	45	1 1/4	3	17.92	7.50	9.50
39	17	1 1/4	2 3/8	6.80	2.50	4.25
40	14	1 1/4	3 1/4	5.62	2.10	4.00
110	89	1 1/4	3	35.42	17.50	21.00
111	22	1 1/4	3	8.78	3.60	4.50
112	30	1 1/4	3	11.96	5.20	6.60
53	36	1 1/2	3 1/2	17.21	9 00	11.00
63 C	15	1 1/2	4	7.21	3.00	5.00
62 C	74	1 1/2	4	35.34	22.50	29.00
76 B	13	1 1/2	4	6.27	3.00	4.75
77 B	84	1 1/2	4	40.17	28 00	35.00
54	100	1 1/2	4	47.74	33.50	42.00
60	36	1 5/8	5	18.62	12.00	15.00
61	34	1 5/8	5	15.75	11.00	14 00
78 B	46	1 5/8	6	23.78	24.50	30.00
79 B	12	1 5/8	6 1/4	6.28	6.00	8.00
125	64	1 3/4	5	35.66	27.00	33.00
126	21	1 3/4	11	11.74	8.00	10.00
127	86	1 3/4	5	47 92	42.00	52.50
128	15	1 3/4	5 1/2	8.42	5 50	7 00
129	76	1 3/4	4	42.35	30.00	37.00
130	20	1 3/4	4 3/8	11 19	7.00	9.00
131	86	1 3/4	4	47.92	39.00	49.00
132	14	1 3/4	4	7.80	4.50	5.75
134	33	1 3/4	4	18.41	12.00	15.00
80 B	14	2	6 3/4	8 99	9.00	11.50
81 B	79	2	6	50.29	66.00	82.00
82 B	13	2 1/8	6	8.88	8.50	11.50
83 B	14	2 1/8	6	9 55	9.25	12.50
84 B	48	2 1/8	6	32.49	18.10	22.60
85 B	68	2 1/8	6	45.99	70.00	88.50
100	52	2 1/4	8	41.38	72.00	90.00
101	17	2 1/4	8	13.52	22.75	28.00
118	22	2 1/2	5	17.57	21.00	26.00
124	30	2 1/2	5	23.92	27.00	33 00

Bevel Mortise Gears.

No. of Pattern.		No. of Cogs.	Pitch.	Face.	Diameter.	Price Rough.	Price Finished.
100	Core Wheel.	57	1 1/2 in.	5 in.	27.23	$21.00	$55.00
101	Pinion.	38	1 1/2 "	5 "	18.16	16.00	33 00

Worm Gears.

Miter Gears.

Miter Gears.

No. of Pattern.	Cogs.	Pitch.	Face.	Diameter.	Price Rough.	Price Bored and Key Seated.	No. of Pattern.	Cogs.	Pitch.	Face.	Diameter.	Price Rough.	Price Bored and Key Seated.
1C	20	3/8 in	3/4 in	2 39	$.75	$ 2 00	34	30	7/8	1 3/4	8.37	1.50	3.00
2C	20	1/2 in	7/8	3.20	1.00	2.20	31	45	7/8	2	12.53	1.75	4 00
							29	38	1	2	12.11	1.80	4.00
3C	36	1/2	1 3/8	6.00	1.25	2.50	28	35	1 1/4	3	13.95	3.50	5 20
33	15	1/2	3/4	2.44	.75	2.00	26	27	1 1/4	2 1/2	10.77	2.50	4.65
35	20	9/16	1	3.58	.85	2.25	30	29	1 1/2	4	13.87	5.50	8 00
32	25	3/4	1 1/2	5.98	1.00	2.20	25	40	1 1/4	3 1/2	15.93	7.00	9.25
4C	19	3/4	1 1/2	4.56	.90	2.00	25 H	25	1 3/4	5	13.96	9.00	12.00
							40	34	2 1/4	6 1/2	24.39	25 00	32.00

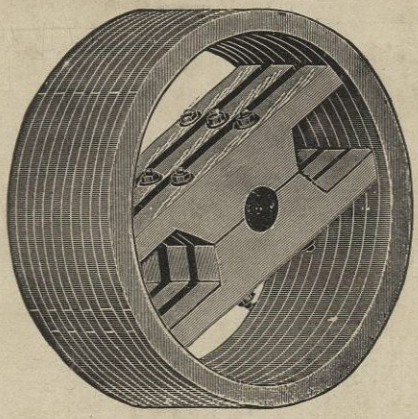
Angle Gears.

No. of Pattern.		No. of Cogs,	Pitch.	Face.	Diameter.	Price Rough.	Price Finished.	Angle.
131	Miter	17	1 1/8	2 1/4	6.12	$ 2.00	$ 4.00	42 1/2°
132	Bevel	16	1 1/4	2 1/4	6.41	2.10	4.20	39°
133	"	48	1 1/4	2 1/4	19.11	4.50	7.20	39°
	"	22	1 3/4		12.30	13.25	18.50	6°
	"	32	1 3/4		17.85	15.00	21.75	6°

Worms and Worm Gears.

No. of Pattern	Cogs.	Pitch.	Face.	Diameter.	Price Rough.	Price Bored and key seated.		
1	13	1 1/4	2 1/4	5.22	$1.50	$ 3 00	Proportion, 13 to 1.	R. H.
2	Worm			4.35	1.50	3.00		
3	49	1	1 3/4	15.61	4 50	6.00	Proportion, 24 1/2 x 1.	
4	Worm			3.50	2.00	4 00	Double Thread.	L. H.
5	62	1	1 3/4	19.73	5.00	7.00	Proportion, 62 to 1.	R. H.
6	Worm			4.50	1.60	3.10		
7	42	1 1/2	2 1/2	20.07	7.00	10 00	Proportion, 42 to 1.	R. H.
8	Worm			5.25	4.00	6.00		

Price List of Wood Split Pulleys.



Every Pulley Warranted.

PRICE LIST

FACE.

	3	4	5	6	7	8	9	10	12	14	16	18
6	$ 2 20	$ 2 35	$ 2 55	$ 2 75	$ 3 00	$ 3 25	$ 3 50	$ 3 75	$ 4 30	$ 5 00	.....	.....
7	2 30	2 45	2 65	2 85	3 10	3 35	3 60	3 85	4 50	5 20	.....	.....
8	2 45	2 60	2 80	3 00	3 25	3 50	3 75	4 00	4 65	5 40	.....	.....
9	2 60	2 80	3 00	3 25	3 50	3 75	4 00	4 30	5 00	5 80	.....	.....
10	2 80	3 00	3 25	3 50	3 75	4 00	4 30	4 65	5 40	6 20	.....	.....
12	3 15	3 40	3 65	3 90	4 20	4 55	4 90	5 30	6 10	6 90	.....	.....
14	3 45	3 70	4 00	4 35	4 70	5 10	5 55	6 00	6 90	7 90	.....	.....
16	3 80	4 15	4 50	5 00	5 50	6 00	6 50	7 00	8 00	9 00	.....	.....
18	4 20	4 70	5 20	5 70	6 20	6 70	7 20	7 80	9 00	10 30	$11 90	$13 50
20	.....	5 20	5 80	6 40	7 00	7 60	8 30	9 00	10 40	12 00	13 80	15 60
22	.....	5 60	6 30	7 00	7 70	8 40	9 20	10 00	11 70	13 50	15 50	17 70
24	.....	6 20	7 00	7 80	8 60	9 40	10 30	11 20	13 00	15 20	17 70	20 20
26	.....	7 00	7 80	8 60	9 50	10 50	11 50	12 60	15 00	17 60	20 40	23 30
28	.....	7 80	8 60	9 50	10 50	11 60	12 80	14 00	16 50	19 40	22 40	25 60
30	.....	8 60	9 50	10 60	11 80	13 00	14 30	15 60	18 50	21 50	25 00	28 50
32	.....	9 50	10 50	11 60	12 85	14 10	15 50	17 00	20 30	23 80	27 40	31 00
34	.....	10 60	11 80	13 10	14 45	15 90	17 40	19 00	22 50	26 10	29 80	33 60
36	.....	11 70	13 10	14 60	16 10	17 70	19 30	21 00	24 00	28 00	32 00	36 00
38	.....	.....	14 40	16 00	17 70	19 50	21 20	23 00	26 00	30 00	34 00	38 00
40	.....	.....	15 70	17 50	19 30	21 25	23 10	25 00	28 00	32 00	36 00	41 00
42	.....	.....	.....	19 00	21 00	23 00	25 00	27 00	31 00	35 00	39 00	44 00
44	.....	.....	.....	21 00	23 00	25 00	27 00	29 00	33 00	37 00	42 00	47 00
46	.....	.....	.....	23 00	25 00	27 00	29 00	31 00	36 00	40 00	45 00	51 00
48	.....	.....	.....	25 00	27 00	29 00	31 50	33 90	38 50	43 00	48 00	54 00
50	.....	.....	.....	.....	.....	31 00	33 70	36 20	41 00	46 00	51 00	58 00
52	.....	.....	.....	.....	.....	34 00	36 00	38 50	43 50	49 00	55 00	62 00
54	.....	.....	.....	.....	.....	36 00	38 50	41 20	46 00	52 00	59 00	66 00
56	.....	.....	.....	.....	.....	39 00	41 00	43 00	49 00	55 00	63 00	71 00
58	.....	.....	.....	.....	.....	42 00	44 00	46 00	52 00	59 00	67 00	75 00
60	.....	.....	.....	.....	.....	45 00	47 00	49 00	55 00	62 00	71 00	80 00

We guarantee that these pulleys can be used successfully wherever a leather belt can be operated to advantage, and that they will give entire satisfaction if properly put in place. On application we will quote price on any size pulley not found in this list. These pulleys are turned inside as well as out on their own centre, producing a rim of uniform thickness and weight.

Cipher Code for Ordering Wood Pulleys by Telegraph.

DIAMETER IN INCHES.

3	Dado	28	Deed	53	Divan	78	Drawer
4	Dagon	29	Deft	54	Diver	79	Dray
5	Dahlia	30	Degree	55	Dock	80	Dream
6	Daisy	31	Dekel	56	Doctor	81	Dredge
7	Daker	32	Delight	57	Doe	82	Dress
8	Dale	33	Dentist	58	Dog	83	Drift
9	Damask	34	Depot	59	Dogma	84	Drill
10	Damper	35	Deputy	60	Doll	85	Drink
11	Damsel	36	Derby	61	Dolphin	86	Drive
12	Dance	37	Desert	62	Domain	87	Drop
13	Dandy	38	Design	63	Don	88	Drown
14	Dangle	39	Desire	64	Donor	89	Drug
15	Daphne	40	Despot	65	Door	90	Druid
16	Daric	41	Detail	66	Dot	91	Drum
17	Dart	42	Dexter	67	Dove	92	Dry
18	Dash	43	Dial	68	Dower	93	Ducat
19	Daub	44	Diadem	69	Down	94	Duck
20	Dauphin	45	Dice	70	Dozen	95	Duet
21	Davit	46	Diet	71	Drab	96	Duke
22	Dawn	47	Digest	72	Draco	97	Dusk
23	Day	48	Dike	73	Draft	98	Dutch
24	Dean	49	Dipper	74	Dragon	99	Duty
25	Debate	50	Disk	75	Drain	100	Dwarf
26	Debut	51	District	76	Drake		
27	Deck	52	Ditch	77	Drama		

DIAMETER OF SHAFT IN INCHES.

1	Saber	1 13-16	Saw	2 5-8	Screen	3 15-16	Sextent
1 1-16	Sachem	1 7-8	Saxon	2 11-16	Screw	4	Shark
1 1-8	Saddle	1 15-16	Say	2 3-4	Scribe	4 1-4	Shear
1 3-16	Safety	2	Scale	2 13-16	Scrip	4 1-2	Shine
1 1-4	Safe	2 1-16	Scarf	2 7-8	Scroll	4 3-4	Shot
1 5-16	Salt	2 1-8	Scene	2 15-16	Scull	5	Sibyl
1 3-8	Salad	2 3-16	Scheme	3	Sea	5 1-4	Side
1 7-16	Sample	2 1-4	School	3 3-16	Sector	5 1-2	Sieve
1 1-2	Sandal	2 5-16	Scion	3 1-4	Sedan	5 3-4	Sigh
1 9-16	Sash	2 3-8	Scoop	3 7-16	Seed	6	Skate
1 5-8	Satin	2 7-16	Score	3 1-2	Seine		
1 11-16	Sauce	2 1-2	Scot	3 11-16	Sepoy		
1 3-4	Savage	2 9-16	Scout	3 3-4	Serf		

FACE IN INCHES.

3	Fact	13	Ferret	23	Fleet
4	Fairy	14	Festoon	24	Float
5	Fame	15	Fete	25	Fly
6	Fancy	16	Fez	26	Foal
7	Farm	17	Fibre	27	Focus
8	Favor	18	Field	28	Folio
9	Fawn	19	Fife	29	Font
10	Feast	20	Finger	30	Force
11	Fellow	21	Fish	31	Fowl
12	Fender	22	Flag	32	Fox

Straight Face .....Straight
Crown Face .....Crown
Double Crown Face..Bicrown
Loose Pulley .....Loose
Ship by Express .....Express
Ship by freight .....Freight

Plain Iron Pulleys.

Bored, Turned and Balanced, with Set Screws or Key Seats.

PRICE LIST.

Diameter.	FACE.												Diameter.
	3	4	5	6	7	8	10	12	14	16	18	20	
6	$1 95	$2 10	$2 30	$2 55	$2 80	$ 3 05	$ 3 60	.....	.....	.....	....	.....	6
7	2 10	2 25	2 50	2 75	3 00	3 25	3 85	.....	.....	.....	....	.....	7
8	2 25	2 55	2 70	2 95	3 20	3 45	4 15	.....	.....	.....	....	.....	8
9	2 40	2 60	2 85	3 15	3 45	3 75	4 45	.....	.....	.....	....	.....	9
10	2 55	2 75	3 05	3 40	3 70	4 05	4 75	$ 5 50	.....	.....	....	.....	10
11	2 70	2 95	3 25	3 60	3 95	4 35	5 05	5 85	.....	.....	.....	.....	11
12	2 85	3 15	3 50	3 85	4 20	4 55	5 35	6 20	$ 7 25	$ 8 40	.....	....	12
13	3 05	3 35	3 70	4 10	4 45	4 90	5 70	6 60	7 75	8 95	.....	.....	13
14	3 25	3 55	3 90	4 35	4 70	5 20	6 10	7 05	8 25	9 50	.....	.....	14
15	3 40	3 75	4 15	4 50	5 05	5 50	6 45	7 50	8 75	10 10	.....	.....	15
16	3 60	3 95	4 40	4 90	5 35	5 85	6 85	8 00	9 40	10 90	.....	.....	16
17	3 80	4 20	4 70	5 20	5 70	6 20	7 30	8 50	10 05	11 70	.....	.....	17
18	4 00	4 45	4 95	5 50	6 05	6 60	7 75	9 10	10 80	12 60	.....	.....	18
19	4 25	4 70	5 25	5 85	6 45	7 05	8 30	9 75	11 60	13 55	.....	.....	19
20	4 45	4 95	5 55	6 20	6 85	7 50	8 85	10 40	12 40	14 50	.....	.....	20
22	4 90	5 55	6 15	6 90	7 60	8 40	9 95	11 70	14 05	16 40	.....	.....	22
24	5 40	6 10	6 85	7 65	8 45	9 30	11 10	13 35	15 70	18 30	.....	.....	24
26	6 00	6 90	7 65	8 60	9 45	10 55	12 50	15 00	17 65	20 40	.....	.....	26
27	6 35	7 30	8 15	9 05	10 00	11 10	13 35	15 30	18 60	21 45	.....	.....	27
28	6 75	7 70	8 50	9 50	10 60	11 70	14 10	16 85	19 55	22 50	.....	.....	28
30	7 60	8 55	9 45	10 55	11 75	13 00	15 75	18 60	21 55	24 70	.....	.....	30
32	8 45	9 40	10 45	11 65	12 95	14 40	17 40	20 55	23 70	27 05	$30 55	$34 15	32
34	9 40	10 40	11 50	12 90	14 35	15 85	19 10	22 50	25 90	29 45	33 10	36 95	34
36	10 40	11 40	12 65	14 10	15 70	17 35	20 85	24 50	28 10	31 85	35 70	39 70	36
38	.....	12 55	13 95	15 60	17 95	19 05	22 80	26 65	30 50	34 45	38 50	42 80	38
40	.....	13 70	15 30	17 10	20 25	20 80	24 75	28 80	32 90	37 10	41 35	45 90	40
42	.....	14 90	16 70	18 60	20 55	22 56	26 70	31 00	35 30	39 70	44 20	49 00	42
44	.....	16 25	18 20	20 25	22 30	24 45	28 80	33 40	37 90	42 70	47 55	52 60	44
46	.....	17 65	19 70	21 85	24 05	26 35	30 95	35 80	40 60	45 70	50 90	56 30	46
48	.....	19 00	21 20	23 50	25 85	28 25	33 15	38 20	43 30	48 70	54 20	60 00	48
50	....	.....	22 80	25 30	27 75	30 25	32 80	40 80	46 20	52 00	57 95	64 00	50
54	.....	.....	26 20	28 90	31 65	34 40	40 05	46 00	52 20	58 70	65 50	72 20	54
56	....	.....	.....	30 85	33 55	36 30	42 25	48 75	55 40	62 30	69 50	76 60	56
60	.....	.....	.....	34 80	37 50	40 35	46 85	54 20	61 80	69 60	77 50	85 50	60
66	....	.....	.....	40 50	44 20	47 95	55 75	64 00	72 70	81 50	90 50	99 95	66
72	....	.....	.....	47 50	51 75	56 00	64 70	74 00	83 75	93 70	104 00	115 70	72

Pulleys listed above are made from approved patterns, and are designed for the general run of work. Extra heavy or double-armed pulleys will be furnished at a slight increased cost.

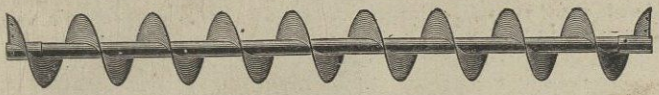
Additional Price to be Added to List Price for
Tight and Loose Pulleys, Per Pair,
AND
Finished Flange Pulleys, Each.

Diameter in Inches.	Price Tight and Loose Pulleys.	Price Flanged Pulleys.
6 to 8	$ 1 60	$ 4 65
9 to 10	1 95	5 20
11 to 12	2 30	5 75
13 to 14	2 65	6 30
15 to 16	3 00	7 15
17 to 18	3 30	8 00
19 to 20	3 70	8 80
21 to 22	4 05	9 90
23 to 24	4 40	11 00
25 to 26	4 75	12 10
27 to 28	5 10	13 75
29 to 30	5 45	15 40
31 to 32	5 80	17 05
33 to 34	6 15	18 70
35 to 36	6 50	20 35
37 to 40	7 20	23 10
41 to 44	7 90	26 40
45 to 48	8 60	29 70
49 to 52	9 30	33 00
53 to 56	10 00	36 30
57 to 60	10 70	40 70

Additional Price to be Added to List Price for
Finished Split Pulleys.

Diameter in Inches.	Face in Inches.	Price.	Diameter in Inches.	Face in Inches..	Pr'ce.
8 to 10	2 to 3	$ 1 30	31 to 36	3 to 4	$ 4 50
	4 to 6	1 75		5 to 6	5 60
	7 to 10	2 15		7 to 10	6 75
	11 to 14	3 10		11 to 14	9 80
	15 to 20	4 00		15 to 20	13 00
				21 to 30	19 00
11 to 18	2 to 3	1 50			
	4 to 6	2 20	37 to 47	3 to 4	6 50
	7 to 10	2 85		5 to 6	7 50
	11 to 14	4 00		7 to 10	9 90
	15 to 20	5 25		11 to 14	13 50
				15 to 20	18 00
19 to 23	3 to 4	2 65		21 to 30	27 00
	5 to 6	3 40		31 to 40	37 00
	7 to 10	4 05			
	11 to 14	5 60	48 to 60	5 to 6	10 00
	15 to 20	7 30		7 to 10	13 00
	21 to 30	11 00		11 to 14	18 00
				15 to 20	25 00
24 to 30	3 to 4	3 60		21 to 30	34 50
	5 to 6	4 40		31 to 40	48 00
	7 to 10	5 40			
	11 to 14	7 25			
	15 to 20	10 00			
	21 to 30	14 00			

Price List of Standard or Regular Steel Conveyor.

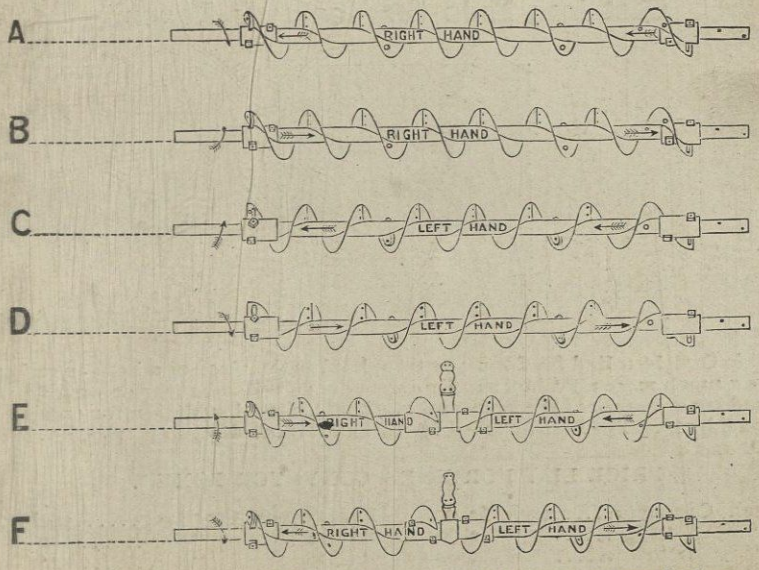


PRICE LIST AND DIMENSIONS.

Outside Diameter in Inches.	Standard Length.	Inside Diameter of Hollow Shaft.	Regular Diameter of Projection.	Maximum Capacity per Hour, Bushels.	Recommended Revol'tions Per Minute	Price Per Foot, Standard Steel.	Price, Per Foot, Galvanized Steel.
3″	8″	13/16″	3/4″	60	250	$1 00	$1 28
4	8	1	1	100	220	1 00	1 28
5	10	1½	1½	200	210	1 67	2 03
6	10	1½	1½	350	200	1 67	2 03
8	10	1½	1½	780	180	2 00	2 68
9	10	1½	1½	1100	175	2 00	2 68
10	10	1½	1½	1400	160	2 80	3 48
12	12	2	2	2000	150	2 80	3 48
14	12	2	2	3400	140	3 75	4 38
16	12	2	2	5000	130	3 75	4 83
16	12	3	2 15/16	5000	130	5 08	6 38
18	12	3	2 15/16	6000	120	6 15	7 79

The Standard lengths, as given above, include the width of one hanger bearing.

Above prices include one hanger and one coupling for each Standard length and the necessary bolts and linings. An extra charge is made for driving ends.



In ordering Conveyor, please refer to the letters as indicated above.

Driving Ends.

Driving ends, sometimes called gudgeons or projections, extend about six inches inside of conveyor shaft and project suitable distance to attach driving power and to give bearing in pillow block.

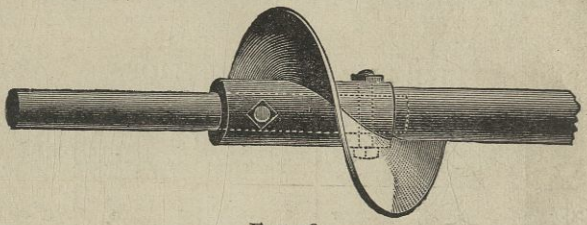


FIG 18.

We charge for standard diameter driving ends at conveyor rates when less than twelve inches long. For standard driving ends longer than twelve inches we charge for shaft used and labor in cuting off, drilling and fitting same.

The standard diameters of driving ends are as follows :

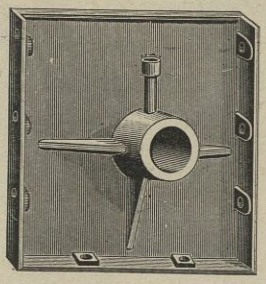
Diameter of conveyor.....	4″	6″	9″	12″	16 on 2″	16 on 3″	18″
Diameter of drive end.....	1″	1–½″	1–½″	2″	2″	3″	3″

Where driving ends are less diameter than standard we use shaft of standard diameter and turn the projecting portion. Where driving ends are greater diameter than standard, we use shaft of diameter of projecting portion and turn about six inches to go into conveyor.

For odd size driving ends we charge for shaft used and labor in cutting off, turning, drilling and fitting same. We are prepared to do this work, at minimum cost, with special tools.

Using drive ends of greater diameter than our standard does not increase the strength of conveyor, because all couplings and the part of drive end inside of pipe are of same diameter and strength.

Cast Iron Ends For Conveyor Boxes.

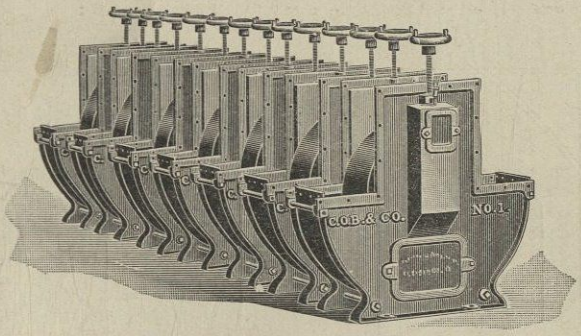


This Cast Iron End for Conveyor trough takes the place of a hanger or bearing It makes a much more rigid bearing for driving ends than a hanger or outside pillow block, and costs less when the labor and material for the foundation for outside bearing is considered. The bearing is babbitted and furnished with oil tube, as shown in nut.

PRICE LIST FOR ENDS CONVEYOR BOXES.

For	6	inch	Conveyor.....	each,	$2 00	For	12	inch	Conveyor..... each, $3 50
"	8	"	"	"	2 50	"	14	"	" ..... " 4 00
"	9	"	"	"	3 00	"	16	"	" ..... " 5 00
"	10	"	"	"	3 25				

Triumph Cast Iron Adjustable Boot.



Made with Either Sprocket Wheels or Pulleys.

The sides are of cast iron, provided with doors which may be opened for removing obstructions. The bottom is of heavy wrought iron, rolled to correspond with the circle described by the cups in passing under the pulley. The boxes are of sufficient length to give good bearings and are babbitted and furnished with oil pipes.

The boxes are adjustable and can be raised or lowered as may be required.

We make several different styles according to the work required. In some cases, especially where the material is gritty, such as quartz and sand stone, we make an extra stand and use extra long boot shafts so as to get the bearings away from the material. In many cases we find this not only much better, but cheaper. In ordering boots it is always a good idea to send full particulars as to the kind of material required to handle.

Wooden elevator heads are generally used. We can make iron heads, also iron legs when desired. When hot material is elevated, this is necessary. We make a specialty of handling cinders, ashes, etc.

Price List of Cast Iron Elevator Boots.

Including Pulley or Sprocket Wheel.

Number of Boot.	Size of Bucket.	Diameter of Pulley or Sprocket.	Face of Pulley.	Width of Belt.	PRICE.
0	3 x 3	12	4	3½	$20 00
	3½ x 3	12	4½	4	20 25
	4 x 3	12	5	4½	20 75
	4½ x 3½	12	5½	5	21 25
	5 x 4	12	6	5½	22 00
	5½ x 4	12	6½	6	23 00
1	5 x 4	14	6	5½	25 00
	5½ x 4	14	7	6	26 25
	6 x 4	14	8	7	27 50
	7 x 4½	14	9	8	29 00
	8 x 5	14	10	9	31 00
2	8 x 5	16	10	9	40 00
	9 x 5½	16	11	10	41 75
	10 x 5½	16	12	11	43 50
	11 x 6	16	13	12	45 50
	12 x 6½	16	14	13	48 00
3	10 x 5½	18	12	11	51 00
	11 x 6	18	13	12	53 00
	12 x 6½	18	14	13	55 50
	14 x 6½	18	16	15	58 00
	16 x 6½	18	18	17	61 00
3	12 x 6½	20	14	13	58 00
	14 x 6½	20	16	15	61 00
	16 x 6½	20	18	17	65 00
	18 x 7	20	20	19	70 00
4	14 x 6½	24	16	15	80 00
	16 x 6½	24	18	17	85 00
	18 x 7	24	20	19	92 00
	20 x 7	24	22	21	100 00
	22 x 8	24	24	23	115 00

MEMORANDUM.

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Bevel gears

Diam 12 1/4"

pitch 2 3/8"

face 2 1/2"

3/8 key

Aug 17—1912

30 teeth

3" face

Diam 8 1/2"

pitch 1 5/8"

face 1 1/2"

1/2" key

20 teeth

3" face

WE ALSO MANUFACTURE

Elevating and Conveying Machinery.

Oatmeal Machinery.

Flour Mill Machinery.

Dryers.

Crushers.

Shellers.

Feed Mills.

Peeling Machinery.

Fertilizer Machinery.

Paint Mills.

Paint Mixers.

Chocolate Machinery.

Rifle and Blasting Powder Machinery.